DiskSavvy

DISK SPACE ANALYZER

User Manual

Version 8.1

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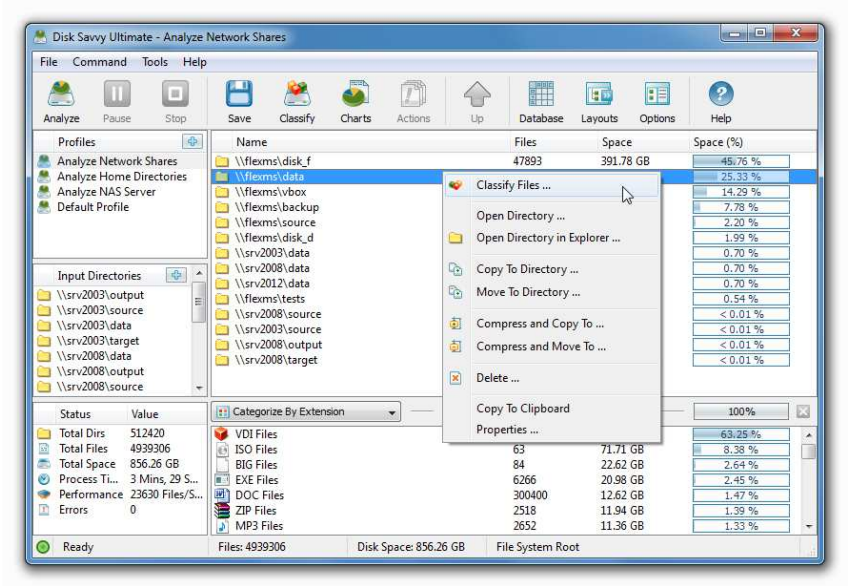
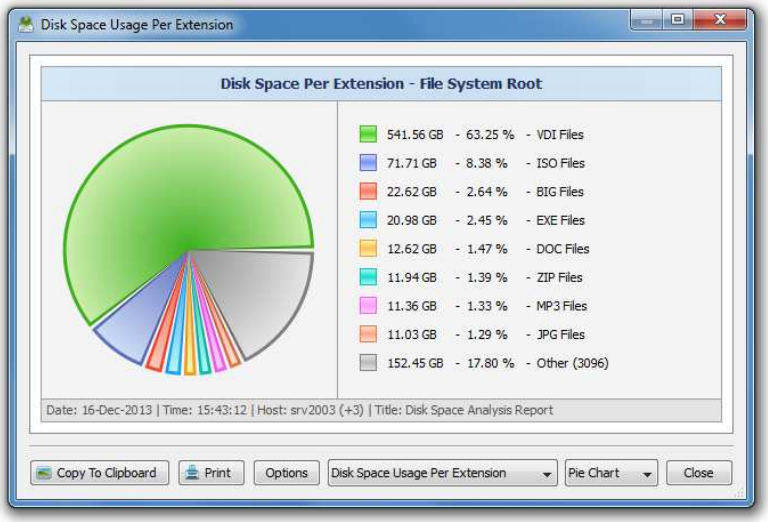
1 Product Overview

DiskSavvy is a powerful disk space usage analyzer allowing one to analyze disks, network shares, NAS storage devices and enterprise storage systems. The user is provided with the ability to analyze one or more disks, directories or network shares, detect directories and files using significant amounts of the disk space, generate various types of pie charts, save disk space usage reports and perform disk space usage history trend analysis operations.

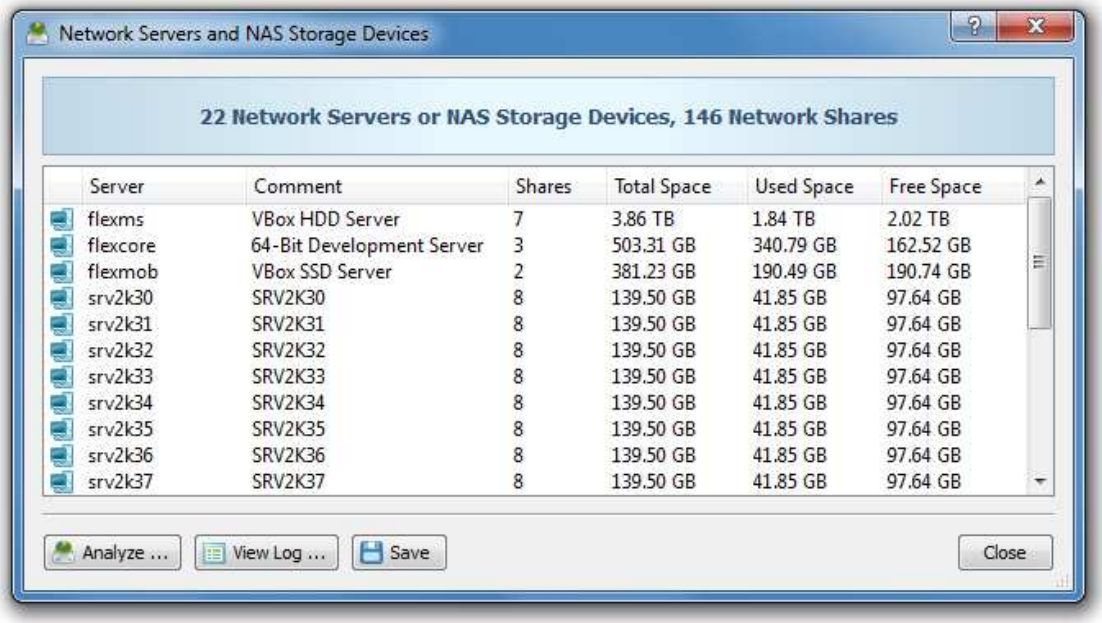


In addition, DiskSavvy provides built-in file classification capabilities allowing one to classify and categorize files using a number of file classification plug-ins capable of recognizing more than 3,000 types of files and showing disk space usage per file type, category, file extension, user name, creation, last modification and last access time, etc. Users are provided with the ability to perform different types of file management operations on disk space analysis results, specific types of files or file categories.

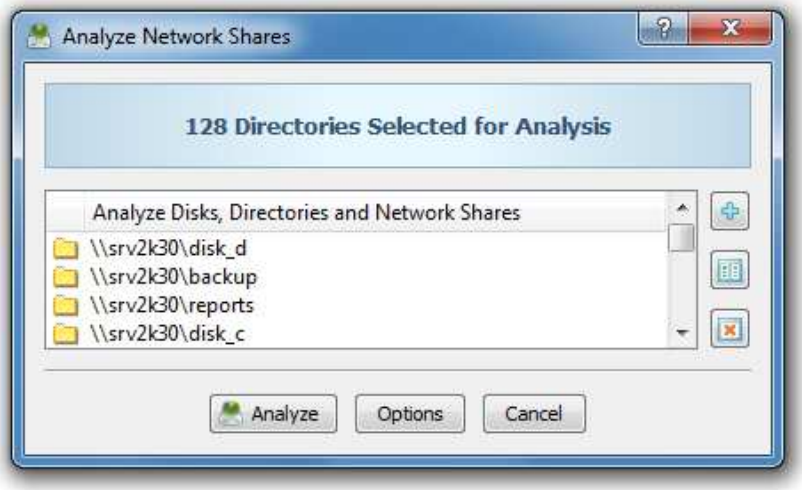

Disk Space Usage Per Extension
Disk Space Per Extension - File System Root
541.56 GB - 63.25 % - VDI Files
71.71 GB - 8.38 % - ISO Files
22.62 GB - 2.64 % - BIG Files
20.98 GB - 2.45 % - EXE Files
12.62 GB - 1.47 % - DOC Files
11.94 GB - 1.39 % - ZIP Files
11.36 GB - 1.33 % - MP3 Files
11.03 GB - 1.29 % - JPG Files
152.45 GB - 17.80 % - Other (3096)
Date: 16-Dec-2013 | Time: 15:43:12 | Host: srv2003 (+3) | Title: Disk Space Analysis Report
Copy To Clipboard
Print
Options
Disk Space Usage Per Extension
Pie Chart
Close

DiskSavvy allows one to save disk space analysis results to a number of standard formats including HTML, PDF, XML, Excel CSV, text and the native DiskSavvy report format. In addition, IT and storage administrators are provided with the ability to export disk space analysis results from multiple servers and/or NAS storage devices to a centralized SQL database and then perform advanced disk space usage history trend analysis operations and display disk space usage per server and disk space usage per user.

DiskSavvy allows one to scan the network, discover network servers and NAS storage devices, automatically detect all accessible network shares and analyze disk space usage in hundreds of network servers and NAS storage devices. In addition, the user is provided with the ability to export the list of detected servers and NAS storage devices (including lists of network shares for each server) into HTML, PDF, text and Excel CSV reports.

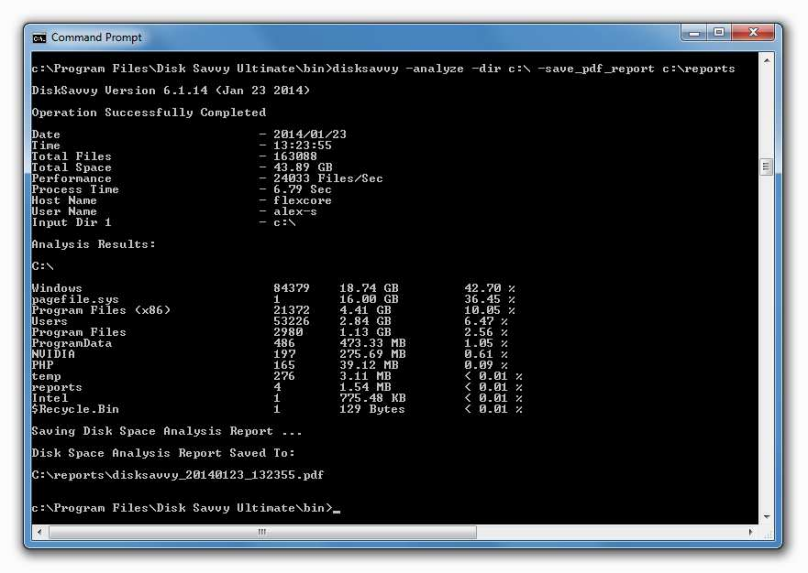

Network Servers and NAS Storage Devices
22 Network Servers or NAS Storage Devices, 146 Network Shares
Server Comment Shares Total Space Used Space Free Space
flexms VBox HDD Server 7 3.86 TB 1.84 TB 2.02 TB
flexcore 64-Bit Development Server 3 503.31 GB 340.79 GB 162.52 GB
flexmob VBox SSD Server 2 381.23 GB 190.49 GB 190.74 GB
srv2k30 SRV2K30 8 139.50 GB 41.85 GB 97.64 GB
srv2k31 SRV2K31 8 139.50 GB 41.85 GB 97.64 GB
srv2k32 SRV2K32 8 139.50 GB 41.85 GB 97.64 GB
srv2k33 SRV2K33 8 139.50 GB 41.85 GB 97.64 GB
srv2k34 SRV2K34 8 139.50 GB 41.85 GB 97.64 GB
srv2k35 SRV2K35 8 139.50 GB 41.85 GB 97.64 GB
srv2k36 SRV2K36 8 139.50 GB 41.85 GB 97.64 GB
srv2k37 SRV2K37 8 139.50 GB 41.85 GB 97.64 GB
Analyze ...
View Log ...
Save
Close

In order to analyze one or more servers or NAS storage devices, press the 'Network' button located on the main toolbar and wait while DiskSavvy will scan the network and show a list of detected network servers and NAS storage devices. On the network servers and NAS storage devices dialog, select the required servers and press the 'Analyze' button.

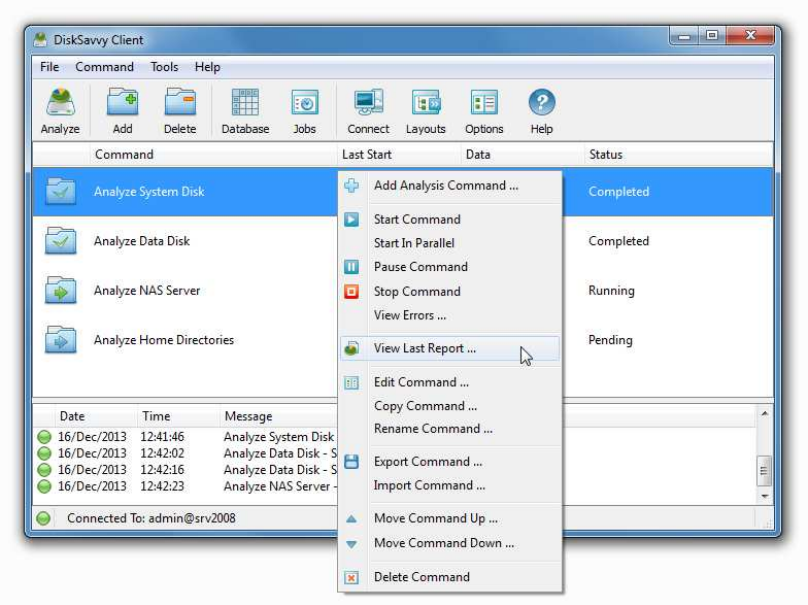


DiskSavvy will show all network shares hosted on the selected servers and NAS storage devices allowing one to analyze disk space usage and save various types of disk space analysis charts and reports. In addition, DiskSavvy provides a large number of advanced disk space analysis options allowing one to tune and customize disk space analysis operations for user specific needs and hardware configurations.

In addition to the DiskSavvy desktop GUI application, IT administrators are provided with a command line utility allowing one to perform disk space analysis operations, save disk space usage reports and export disk space analysis results to an SQL database. The DiskSavvy command line utility may be used to automate disk space analysis operations and integrate disk space analysis capabilities into user-custom batch files and shell scripts.

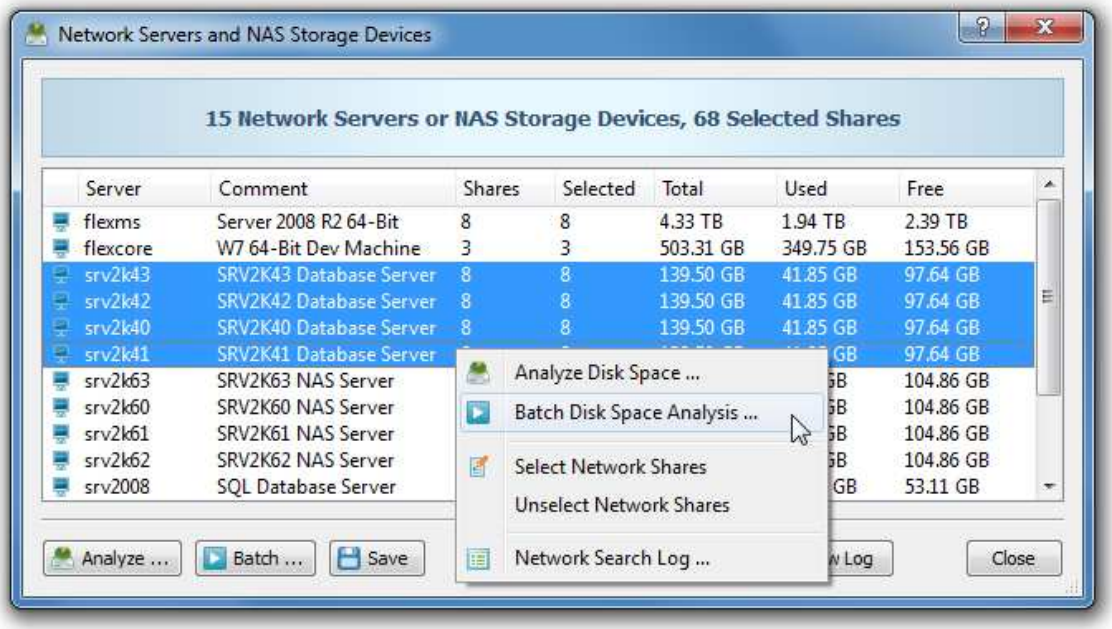


Finally, enterprise customers are provided with DiskSavvy Server, a server-based product version, which runs in the background as a service and allows one to analyze a number of servers or NAS storage devices simultaneously, schedule periodic disk space analysis operations, submit disk space analysis reports from multiple servers to a centralized SQL database, perform advanced disk space usage history trend analysis operations, analyze disk space usage per server, analyze disk space usage per user and execute conditional, rule-based disk space analysis actions.

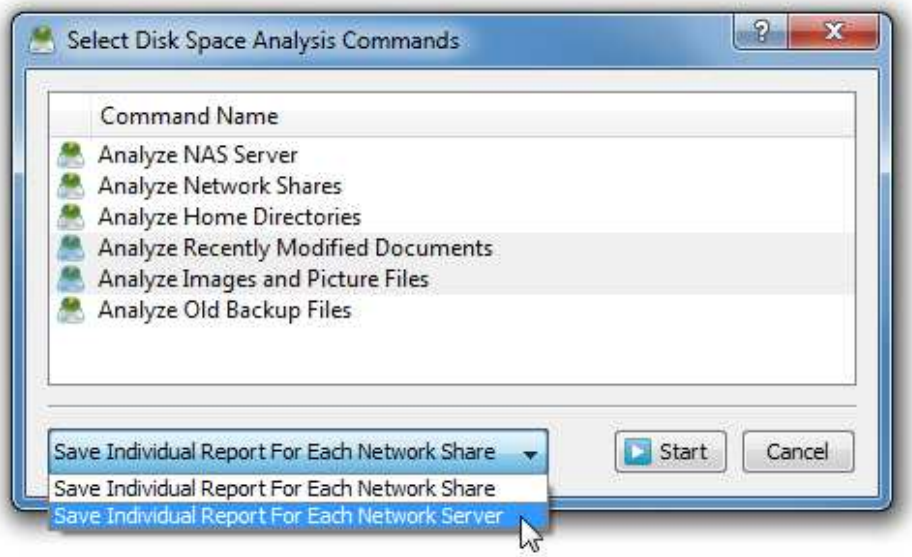


DiskSavvy Server may be controlled using a full-scale client GUI application locally or via the network. The client GUI application provides all features available in the desktop product version and additional capabilities allowing one to analyze multiple servers and/or NAS storage devices simultaneously, schedule periodic disk space analysis operations and perform advanced disk space usage history trend analysis operations. In addition, to the client GUI application, DiskSavvy Enterprise provides a web-based management interface, which can be used to control one or more DiskSavvy Servers using a regular web browser.

DiskSavvy Server and DiskSavvy Enterprise provide the ability to scan the network, detect all network servers and NAS storage devices, execute one or more pre-configured disk space analysis commands on hundreds of network servers and NAS storage devices and generate an individual report for each analyzed server, NAS storage device or network share.



In the simplest case, just press the 'Network' button located on the main toolbar, search all network servers and NAS storage devices on the network, select one or more servers to be analyzed, press the right mouse button and select the 'Batch Disk Space Analysis' menu item. DiskSavvy will show a list of pre-configured disk space analysis commands allowing one to select one or more commands to be executed on all selected network servers and NAS storage devices.


Select Disk Space Analysis Commands
Command Name
Analyze NAS Server
Analyze Network Shares
Analyze Home Directories
Analyze Recently Modified Documents
Analyze Images and Picture Files
Analyze Old Backup Files
Save Individual Report For Each Network Share
Start
Cancel
Save Individual Report For Each Network Share
Save Individual Report For Each Network Server

Depending on the selected configuration, DiskSavvy will save in the built-in reports database an individual disk space analysis report for each analyzed network server, NAS storage device or network share. Once the batch disk space analysis is completed, the user will be provided with the ability to open saved disk space analysis reports, review disk space analysis results, generate various types of pie charts and export reports to a number of standard formats including HTML, PDF, text, Excel CSV and XML.

2 Product Versions

Features	Pro	Ultimate	Server	Enterprise
Maximum Amount of Disk Space	10 TB	50 TB	100 TB	Unlimited
Maximum Number of Files	10 M	50 M	100 M	Unlimited
Maximum Number of Input Directories	10	50	100	Unlimited
Maximum Number of Analysis Profiles	10	50	100	Unlimited
Support for Unicode File Names	Yes	Yes	Yes	Yes
Support for Long File Names	Yes	Yes	Yes	Yes
Support for UNC Network Path Names	Yes	Yes	Yes	Yes
Built-In File Management Operations	Yes	Yes	Yes	Yes
Pie Charts and Bars Charts	Yes	Yes	Yes	Yes
Option to Analyze Specific Types of Files	Yes	Yes	Yes	Yes
HTML, PDF, XML, CSV and Text Reports	Yes	Yes	Yes	Yes
Multi-Threaded Disk Space Analysis	No	Yes	Yes	Yes
Built-In Data Wiping Capabilities	No	Yes	Yes	Yes
Rule-Based Disk Space Analysis Actions	No	Yes	Yes	Yes
SQL Database Integration	No	Yes	Yes	Yes
Custom Classification Plugins	No	Yes	Yes	Yes
Command Line Utility	No	Yes	Yes	Yes
Runs in the Background as a Service	No	No	Yes	Yes
Periodic Disk Space Analysis Operations	No	No	Yes	Yes
Analyze Disk Space Usage Per Server	No	No	Yes	Yes
Analyze Disk Space Usage Per User	No	No	Yes	Yes
DiskSavvy Client GUI Application	No	No	Yes	Yes
Disk Space Usage History Trend Analysis	No	No	No	Yes
Batch Disk Space Analysis Operations	No	No	No	Yes
Web-Based Management Interface	No	No	No	Yes
OEM Product Version	No	No	No	Yes
License	**$25**	**$50**	**$125**	**$375**

* Product features, prices and license terms are subject to change without notice.

3 Using Desktop Versions

3.1 Product Installation Procedure

DiskSavvy is available as a free download from our web site page and from a large number of software directories from around the world. To be sure you are getting the latest product version check here: http://www.disksavvy.com/downloads.html

DiskSavvy is especially designed to be as simple as possible. The installation procedure is very simple, requires no special knowledge and may be completed in less than 30 seconds. There is no need for any additional software. Just download the DiskSavvy installation package, run the setup program and you are done.

Disk Savvy Ultimate 5.8.12 (64-Bit) Setup
DiskSavvy
DISK SPACE ANALYZER
Welcome to the Disk Savvy Ultimate 5.8.12 (64-Bit) Setup Wizard
This wizard will guide you through the installation of Disk Savvy Ultimate 5.8.12 (64-Bit).
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
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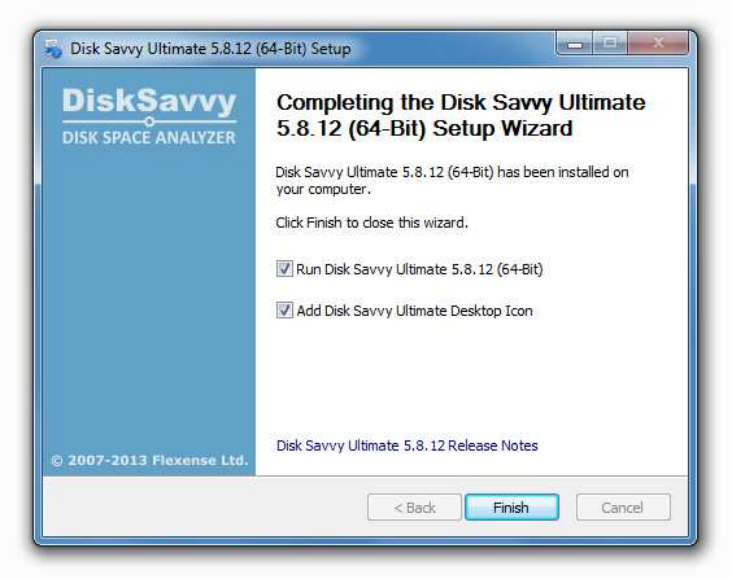
Next >
Cancel

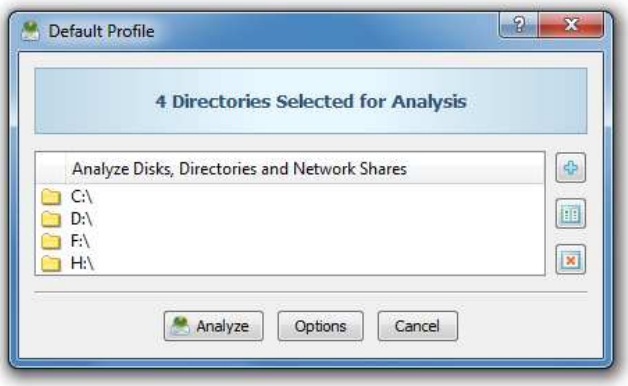
On the 'Welcome' screen press the 'Next' button. Read the end-user license agreement and press the 'I Agree' button if you agree with the license terms or the 'Cancel' button to stop the installation process.


Disk Savvy Ultimate 5.8.12 (64-Bit) Setup
DiskSavvy
DISK SPACE ANALYZER
Completing the Disk Savvy Ultimate 5.8.12 (64-Bit) Setup Wizard
Disk Savvy Ultimate 5.8.12 (64-Bit) has been installed on your computer.
Click Finish to close this wizard.
Run Disk Savvy Ultimate 5.8.12 (64-Bit)
Add Disk Savvy Ultimate Desktop Icon
Disk Savvy Ultimate 5.8.12 Release Notes
© 2007-2013 Flexense Ltd.
< Back
Finish
Cancel

Select the destination directory, press the 'Install' button and wait for the installation process to complete. That's all you need to do to install the DiskSavvy disk space analyzer utility on your computer.

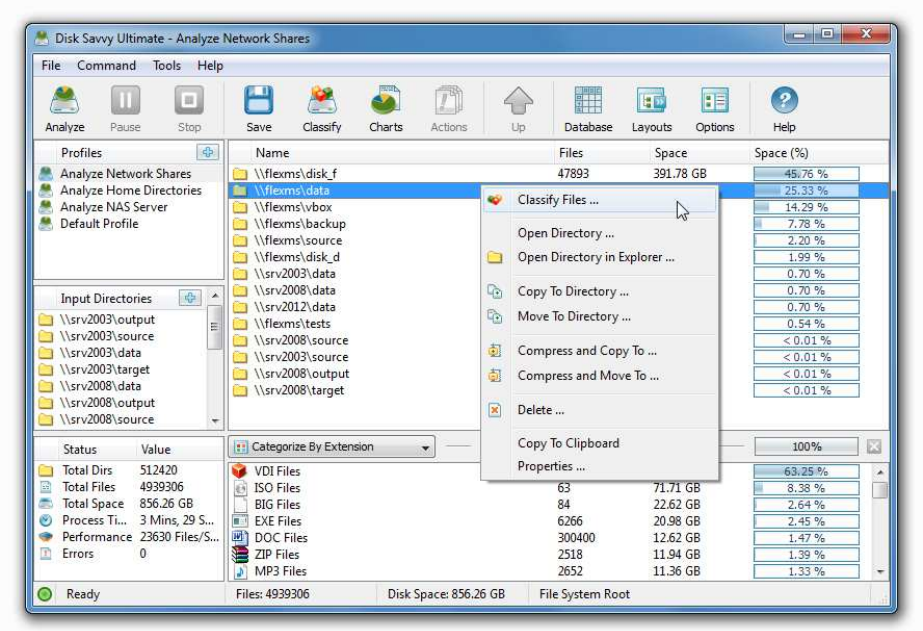
3.2 Analyzing Disk Space Usage in a Directory

In order to analyze disk space usage in a disk or directory, press the 'Analyze' button located on the main toolbar, specify the directory to analyze and press the 'Analyze' button. In order to analyze multiple directories, disks and/or network shares, press the 'Add' button and add all disks, directories and/or network shares that should be analyzed.



Depending on the number of files that should be analyzed, the disk usage analysis process may take from a couple of seconds for thousands of files to a few minutes for large file systems containing millions of files. During the disk space analysis process, DiskSavvy will display the progress of the disk space analysis operation showing the total number of processed files and the amount of processed disk space.

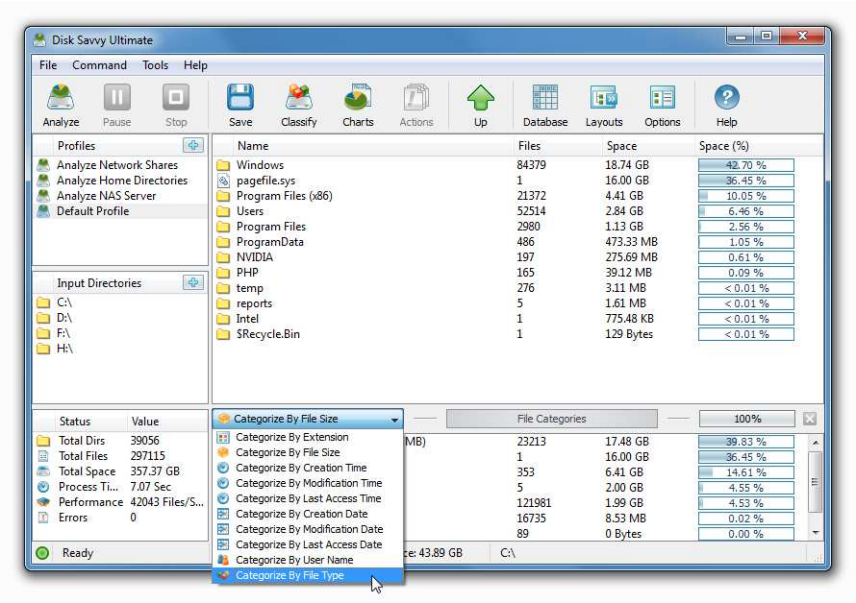
Once the disk space analysis process is completed, DiskSavvy will display a hierarchy of analyzed disks, directories and files sorted by the amount of the used disk space. For each directory, DiskSavvy will show the name of the directory, the total number of files in the directory and all subdirectories and the total amount of the disk space used by all files in the directory and all subdirectories.



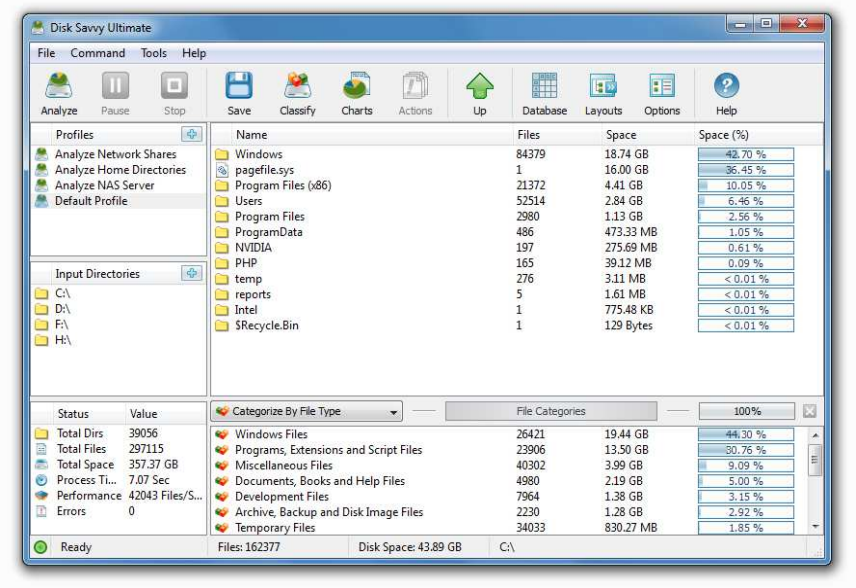
Press the 'Charts' button to display a pie chart showing disk space usage statistics for the current directory view and selected file categories. Click on a directory item to open the directory and show nested subdirectories and files. Select one or more directories and/or files and press the right mouse button to perform a file management operation on the selected items. For example, select one or more files, press the right mouse button and select the 'Copy To Directory' menu item to copy the selected files to another location.

3.3 Using File Categories and File Filters

DiskSavvy allows one to categorize and filter disk space analysis results by the file type, file size, file extension, user name, creation time, last modification time and last assess time. After finishing analyzing the specified disks and directories, DiskSavvy displays the disk space analysis results in the top results view and file categories in the bottom results view according to the currently selected file categorization mode.


Disk Savvy Ultimate
File Command Tools Help
Analyze Pause Stop Save Classify Charts Actions Up Database Layouts Options Help
Profiles
Analyze Network Shares
Analyze Home Directories
Analyze NAS Server
Default Profile
Input Directories
C:\
D:\
F:\
H:\
Name Files Space Space (%)
Windows 84379 18.74 GB 42.70 %
pagefile.sys 1 16.00 GB 36.45 %
Program Files (x86) 21372 4.41 GB 10.05 %
Users 52514 2.84 GB 6.46 %
Program Files 2980 1.13 GB 2.56 %
ProgramData 486 473.33 MB 1.05 %
NVIDIA 197 275.69 MB 0.61 %
PHP 165 39.12 MB 0.09 %
temp 276 3.11 MB < 0.01 %
reports 5 1.61 MB < 0.01 %
Intel 1 775.48 KB < 0.01 %
$Recycle.Bin 1 129 Bytes < 0.01 %
Status Value
Total Dirs 39056
Total Files 297115
Total Space 357.37 GB
Process Ti... 7.07 Sec
Performance 42043 Files/S...
Errors 0
Categorize By File Size
Categorize By Extension
Categorize By File Size
Categorize By Creation Time
Categorize By Modification Time
Categorize By Last Access Time
Categorize By Creation Date
Categorize By Modification Date
Categorize By Last Access Date
Categorize By User Name
Categorize By File Type
File Categories
100%
Ready
C:\

By default, DiskSavvy categorizes disk space analysis results by the file extension and shows a list of all detected file extensions sorted by the amount of used disk space. For each category, DiskSavvy shows the number of files, the amount of used disk space and the percentage of the used disk space relative to other file categories. Use the 'Categories' combo box to categorize files by the file type, creation time, last modification time, last access time, etc.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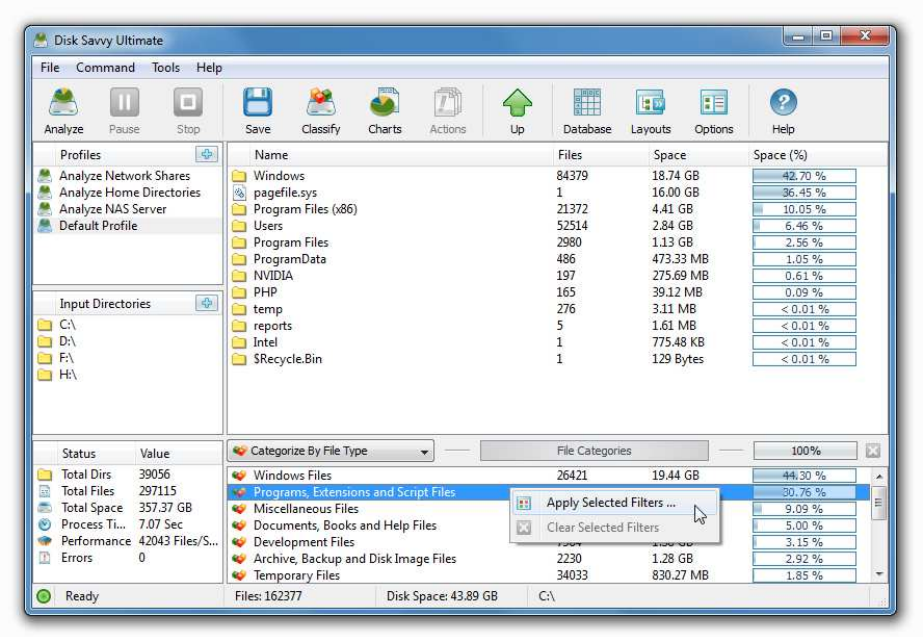
Windows 84379 18.74 GB 42.70 %
pagefile.sys 1 16.00 GB 36.45 %
Program Files (x86) 21372 4.41 GB 10.05 %
Users 52514 2.84 GB 6.46 %
Program Files 2980 1.13 GB 2.56 %
ProgramData 486 473.33 MB 1.05 %
NVIDIA 197 275.69 MB 0.61 %
PHP 165 39.12 MB 0.09 %
temp 276 3.11 MB < 0.01 %
reports 5 1.61 MB < 0.01 %
Intel 1 775.48 KB < 0.01 %
$Recycle.Bin 1 129 Bytes < 0.01 %
Status Value
Total Dirs 39056
Total Files 297115
Total Space 357.37 GB
Process Ti... 7.07 Sec
Performance 42043 Files/S...
Errors 0
Categorize By File Type
File Categories
100%
Windows Files 26421 19.44 GB 44.30 %
Programs, Extensions and Script Files 23906 13.50 GB 30.76 %
Miscellaneous Files 40302 3.99 GB 9.09 %
Documents, Books and Help Files 4980 2.19 GB 5.00 %
Development Files 7964 1.38 GB 3.15 %
Archive, Backup and Disk Image Files 2230 1.28 GB 2.92 %
Temporary Files 34033 830.27 MB 1.85 %
Ready
Files: 162377
Disk Space: 43.89 GB
C:\

For example, set the file categorization mode to 'Categorize By File Type' and DiskSavvy will display types of files in the currently open directory. When the user opens a subdirectory, DiskSavvy automatically updates the file categories view and shows statistics according to the currently open directory. Moreover, all types of pie charts and disk space analysis reports will be generated according to the currently open directory and the selected file categorization mode showing disk space usage statistics in reports and pie charts.

One of the most powerful features of DiskSavvy is the ability to filter disk space analysis results by one or more specific file categories using file filters and then save reports, generate pie charts and perform file management operations on files matching the selected file filters.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Windows 84379 18.74 GB 42.70 %
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Users 52514 2.84 GB 6.46 %
Program Files 2980 1.13 GB 2.56 %
ProgramData 486 473.33 MB 1.05 %
NVIDIA 197 275.69 MB 0.61 %
PHP 165 39.12 MB 0.09 %
temp 276 3.11 MB < 0.01 %
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Intel 1 775.48 KB < 0.01 %
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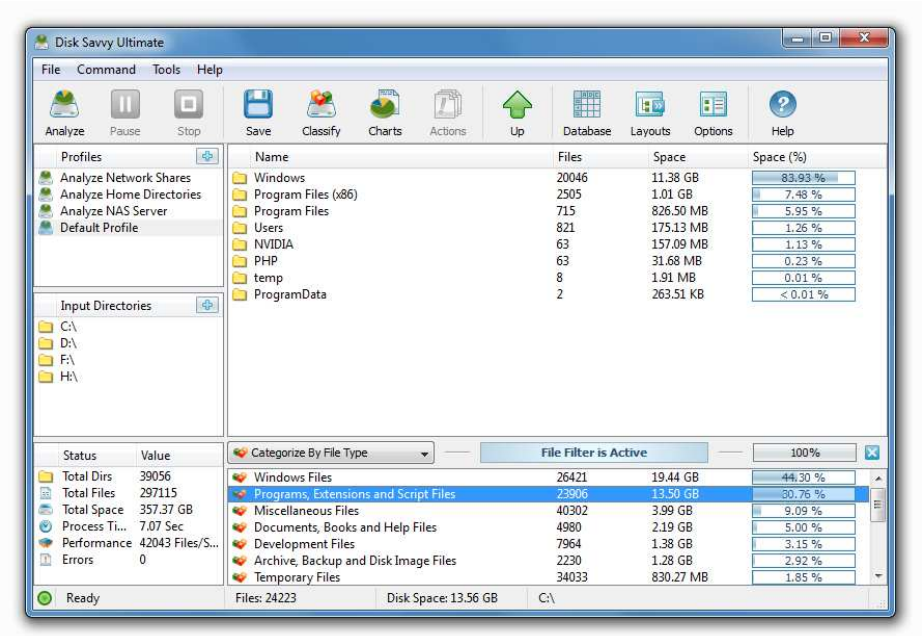
Status Value
Total Dirs 39056
Total Files 297115
Total Space 357.37 GB
Process Ti... 7.07 Sec
Performance 42043 Files/S...
Errors 0
Categorize By File Type
File Categories
100%
Windows Files 26421 19.44 GB 44.30 %
Programs, Extensions and Script Files 30.76 %
Miscellaneous Files 9.09 %
Documents, Books and Help Files 5.00 %
Development Files 3.15 %
Archive, Backup and Disk Image Files 2230 1.28 GB 2.92 %
Temporary Files 34033 830.27 MB 1.85 %
Apply Selected Filters ...
Clear Selected Filters
Ready
Files: 162377
Disk Space: 43.89 GB
C:\

For example, in order to display disk space usage statistics for all types of programs and DLL libraries, categorize disk space analysis results by the file type, select the 'Programs and Extensions' category in the file categories view, press the right mouse button and select the 'Apply Selected Filters' menu item. DiskSavvy will filter disk space analysis results in the currently open directory by the selected file filters and display disk space usage statistics for all types of programs and DLL libraries.


Disk Savvy Ultimate
File Command Tools Help
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Analyze Home Directories
Analyze NAS Server
Default Profile
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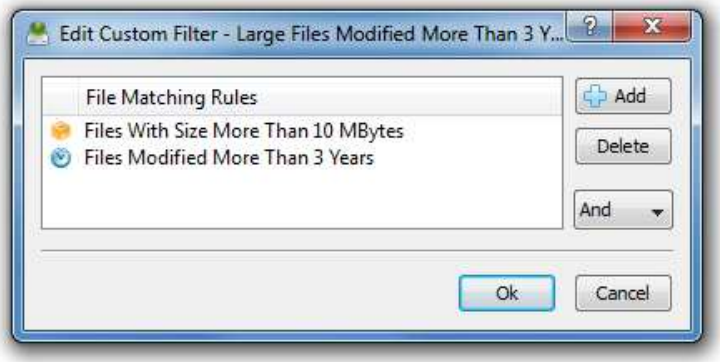
C:\
D:\
F:\
H:\
Name Files Space Space (%)
Windows 20046 11.38 GB 83.93 %
Program Files (x86) 2505 1.01 GB 7.48 %
Program Files 715 826.50 MB 5.95 %
Users 821 175.13 MB 1.26 %
NVIDIA 63 157.09 MB 1.13 %
PHP 63 31.68 MB 0.23 %
temp 8 1.91 MB 0.01 %
ProgramData 2 263.51 KB < 0.01 %
Status Value
Total Dirs 39056
Total Files 297115
Total Space 357.37 GB
Process Ti... 7.07 Sec
Performance 42043 Files/S...
Errors 0
Categorize By File Type
File Filter is Active
100%
Windows Files 26421 19.44 GB 44.30 %
Programs, Extensions and Script Files 23906 13.50 GB 30.76 %
Miscellaneous Files 40302 3.99 GB 9.09 %
Documents, Books and Help Files 4980 2.19 GB 5.00 %
Development Files 7964 1.38 GB 3.15 %
Archive, Backup and Disk Image Files 2230 1.28 GB 2.92 %
Temporary Files 34033 830.27 MB 1.85 %
Ready
Files: 24223
Disk Space: 13.56 GB
C:\

When the user opens a directory with an active file filter, DiskSavvy will automatically filter files in the directory and display files matching the selected file filter. Moreover, all types of pie charts and disk space analysis reports will be generated according to the currently open directory and the selected file filter allowing one to generate different types of disk space analysis reports using different types of file categories and filters and showing disk space usage statistics from different points of view.

In addition to the built-in file filters, DiskSavvy provides the ability to pre-configure one or more custom file filters according to user-specific needs and requirements. In order to add a custom file filter, select the custom file filters view, press the right mouse button over the filters view and select the 'Edit Custom Filters' menu item.

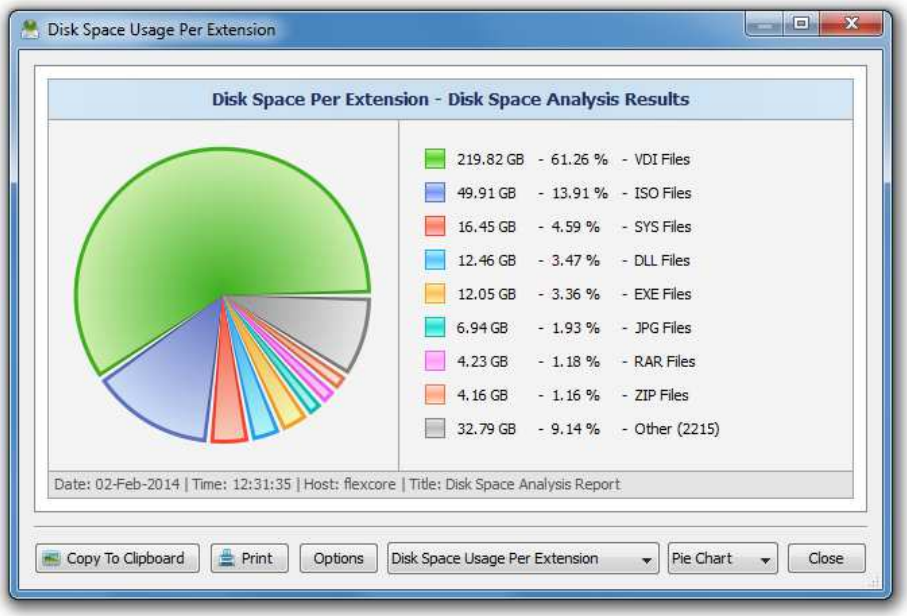
In order to add a new custom file filter, press the 'Add' button, enter a unique filter name and configure one or more file matching rules specifying which types or groups of files to display. In order to edit a custom file filter, select the filter in the custom file filters dialog and press the 'Edit' button.



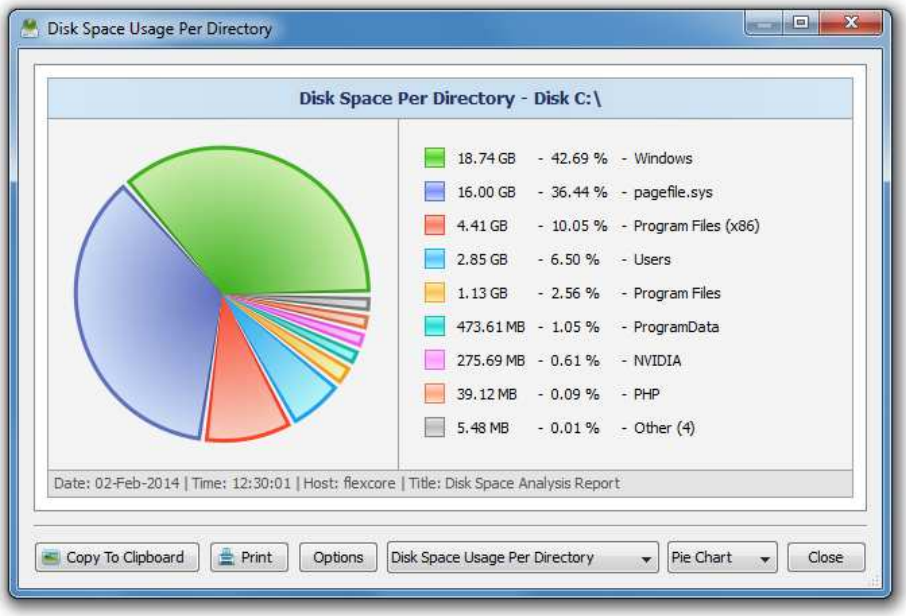
Once finished configuring custom file filters, close the filters dialog and DiskSavvy will analyze the currently displayed disk space usage results and show the list of user-specified custom file filters sorted by the amount of data and the number of files matching the specified file filters. In order to filter the currently displayed disk space usage results by one or more custom file filters, select the required custom file filters in the filters view, press the right mouse button and select the 'Apply Selected Filters' menu item. DiskSavvy will apply the selected custom file filters and display the amount of data and the number of files matching the selected file filters.

3.4 Showing Disk Space Usage Pie Charts

The DiskSavvy disk space analyzer provides multiple types of pie charts capable of showing the amount of used disk space and the number of files per directory, file extension, file type, file size, file owner, last access time, modification time and creation time. In order to open the charts dialog, press the 'Charts' button located on the main toolbar.


Disk Space Usage Per Extension
Disk Space Per Extension - Disk Space Analysis Results
219.82 GB - 61.26 % - VDI Files
49.91 GB - 13.91 % - ISO Files
16.45 GB - 4.59 % - SYS Files
12.46 GB - 3.47 % - DLL Files
12.05 GB - 3.36 % - EXE Files
6.94 GB - 1.93 % - JPG Files
4.23 GB - 1.18 % - RAR Files
4.16 GB - 1.16 % - ZIP Files
32.79 GB - 9.14 % - Other (2215)
Date: 02-Feb-2014 | Time: 12:31:35 | Host: flexcore | Title: Disk Space Analysis Report
Copy To Clipboard
Print
Options
Disk Space Usage Per Extension
Pie Chart
Close

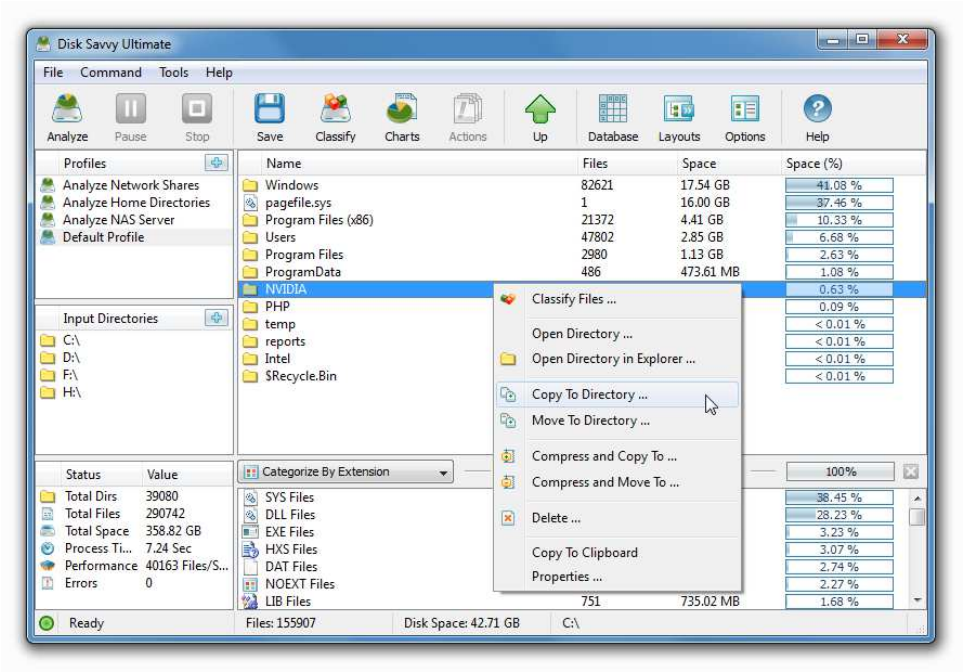
By default, the charts dialog shows the amount of used disk space and the number of files for the current file system location and the selected second-level file categories. For example, in order to open a chart showing the number of files per file category, select the 'Categorize by File Type' second-level file categorization mode and open the charts dialog.


Disk Space Usage Per Directory
Disk Space Per Directory - Disk C:\
18.74 GB - 42.69 % - Windows
16.00 GB - 36.44 % - pagefile.sys
4.41 GB - 10.05 % - Program Files (x86)
2.85 GB - 6.50 % - Users
1.13 GB - 2.56 % - Program Files
473.61 MB - 1.05 % - ProgramData
275.69 MB - 0.61 % - NVIDIA
39.12 MB - 0.09 % - PHP
5.48 MB - 0.01 % - Other (4)
Date: 02-Feb-2014 | Time: 12:30:01 | Host: flexcore | Title: Disk Space Analysis Report
Copy To Clipboard
Print
Options
Disk Space Usage Per Directory
Pie Chart
Close

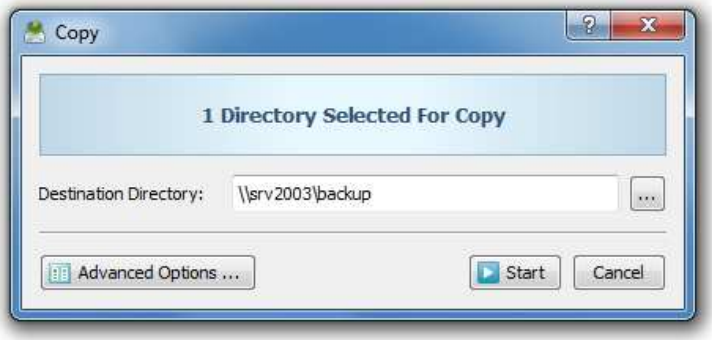
In addition, the charts dialog provides the user with the ability to copy the displayed chart image to the clipboard allowing one to easily integrate DiskSavvy charts into user's documents and presentations. In order to customize the chart's description, press the 'Options' button and specify a custom chart title, host name, date or time.

3.5 Using Built-in File Management Operations

DiskSavvy provides the user with the ability to perform a number of file management operations on disk space analysis results including file copy, move, compress, compress and copy, compress and move and delete. In addition, DiskSavvy allows one execute programs, open files and start the Windows Explorer application in the current directory or in the directory where the currently selected file or directory is located in.



In order to copy one or more directories or files, select the required directory and/or file items in the disk space analysis results view, press the right mouse button and select the 'Copy To' menu item. If a file copy operation is performed with an active file filter, DiskSavvy will copy only files matching the currently selected file filter.

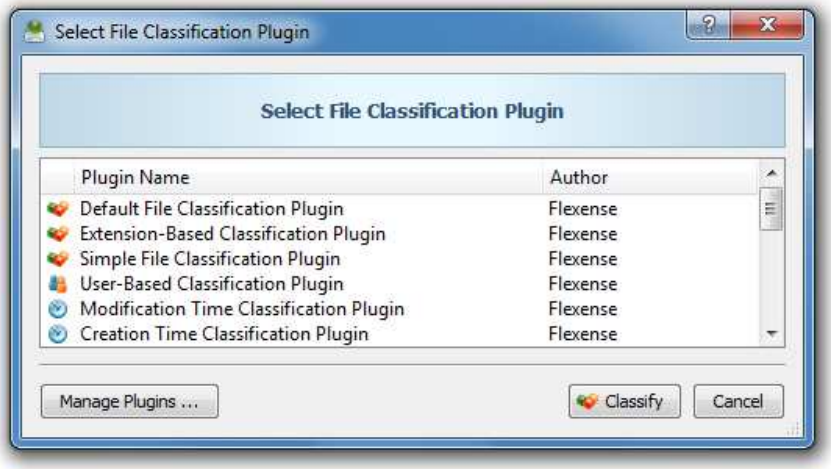


DiskSavvy provides a large number of advanced file copy options allowing one to control which types of files to copy, how fast to perform the file copy operation and how many parallel file copy threads to use. In order to open the 'Advanced Copy Options' dialog press the 'Advanced Options' button located on the 'File Copy' dialog.

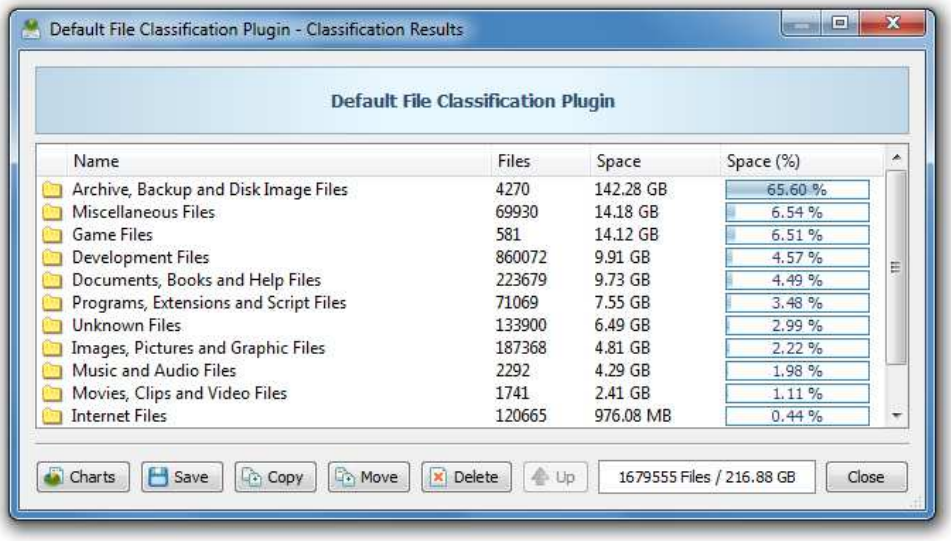
In order to delete one or more files or directories, select the required items in the disk space analysis results view, press the right mouse button and select the 'Delete' menu item. If a file delete operation is performed with an active file filter, DiskSavvy will delete only files matching the currently selected file filter. In addition, IT administrators and power computer users are provided with advanced file delete options allowing one to securely wipe data on the disk, select which types of files to delete, control the speed of the file delete operation, etc.

3.6 Using Built-in File Classification Capabilities

One of the most powerful features provided by the DiskSavvy disk space analyzer is the ability to classify disk space analysis results by the file type, extension, user name, size, last access, last modification and creation dates, etc. DiskSavvy provides a number of built-in file classification plug-ins capable of recognizing more than 3,500 types of files and allowing one to perform a number of different types of file classification operations.



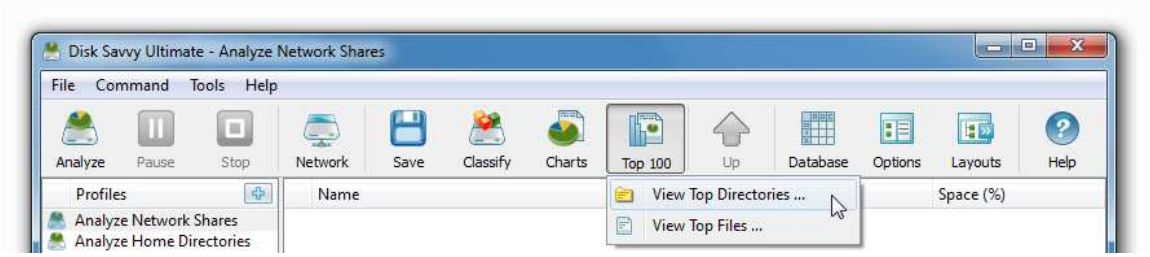
In order to classify files in a disk or directory, select the directory in the disk space analysis results view, press the right mouse button and select the 'Classify' menu item. On the file classification plug-ins dialog, select an appropriate file classification plug-in and press the 'Classify' button. DiskSavvy will classify files located in the directory and display a hierarchy of file categories, groups and file classes sorted by the amount of used disk space. In order to open a file category, just click on the file category item in the file classification results dialog.


Default File Classification Plugin - Classification Results
Default File Classification Plugin
Name
Files
Space
Space (%)
Archive, Backup and Disk Image Files 4270 142.28 GB 65.60 %
Miscellaneous Files 69930 14.18 GB 6.54 %
Game Files 581 14.12 GB 6.51 %
Development Files 860072 9.91 GB 4.57 %
Documents, Books and Help Files 223679 9.73 GB 4.49 %
Programs, Extensions and Script Files 71069 7.55 GB 3.48 %
Unknown Files 133900 6.49 GB 2.99 %
Images, Pictures and Graphic Files 187368 4.81 GB 2.22 %
Music and Audio Files 2292 4.29 GB 1.98 %
Movies, Clips and Video Files 1741 2.41 GB 1.11 %
Internet Files 120665 976.08 MB 0.44 %
Charts
Save
Copy
Move
Delete
Up
1679555 Files / 216.88 GB
Close

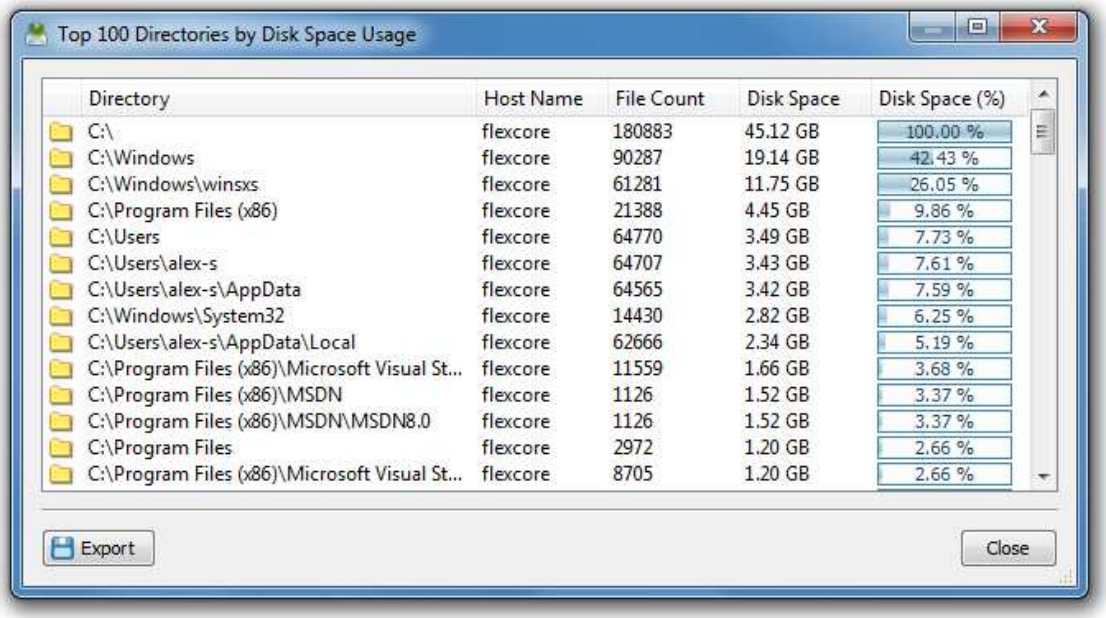
The file classification results dialog allows one to save file classification reports, display pie charts showing disk space usage per file category and perform file management operations such as file copy, move and delete on categories of files and individual files. For example, in order to delete all types of document files, select the 'Documents Files' category, press the 'Delete' button and DiskSavvy will delete all types of document files.

3.7 Viewing Top 100 Directories by Disk Space Usage

By default, DiskSavvy shows a structured hierarchy of analyzed directories sorted by the used disk space and allows one to browse subdirectories in order to identify which subdirectories and files are using significant amounts of the disk space. In addition, DiskSavvy provides the ability to display a flat list of top 100 directories sorted by the amount of the used disk space.


Disk Savvy Ultimate - Analyze Network Shares
File Command Tools Help
Analyze Pause Stop Network Save Classify Charts Top 100 Up Database Options Layouts Help
Profiles
Analyze Network Shares
Analyze Home Directories
Name
Space (%)
View Top Directories ...
View Top Files ...

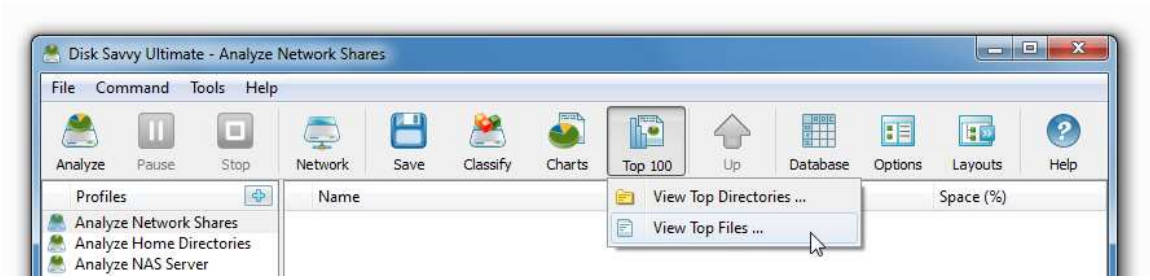
In order to display the list of top 100 directories, analyze one or more disks or network shares, press the 'Top 100' button located on the main toolbar and select the 'View Top Directories' menu item. For each directory, the list of top 100 directories shows the full directory name, the host name, the total number of files in the directory and all subdirectories and the total amount of the used disk space for the directory and all subdirectories.


Top 100 Directories by Disk Space Usage
Directory Host Name File Count Disk Space Disk Space (%)
C:\ flexcore 180883 45.12 GB 100.00 %
C:\Windows flexcore 90287 19.14 GB 42.43 %
C:\Windows\winsxs flexcore 61281 11.75 GB 26.05 %
C:\Program Files (x86) flexcore 21388 4.45 GB 9.86 %
C:\Users flexcore 64770 3.49 GB 7.73 %
C:\Users\alex-s flexcore 64707 3.43 GB 7.61 %
C:\Users\alex-s\AppData flexcore 64565 3.42 GB 7.59 %
C:\Windows\System32 flexcore 14430 2.82 GB 6.25 %
C:\Users\alex-s\AppData\Local flexcore 62666 2.34 GB 5.19 %
C:\Program Files (x86)\Microsoft Visual St... flexcore 11559 1.66 GB 3.68 %
C:\Program Files (x86)\MSDN flexcore 1126 1.52 GB 3.37 %
C:\Program Files (x86)\MSDN\MSDN8.0 flexcore 1126 1.52 GB 3.37 %
C:\Program Files flexcore 2972 1.20 GB 2.66 %
C:\Program Files (x86)\Microsoft Visual St... flexcore 8705 1.20 GB 2.66 %
Export
Close

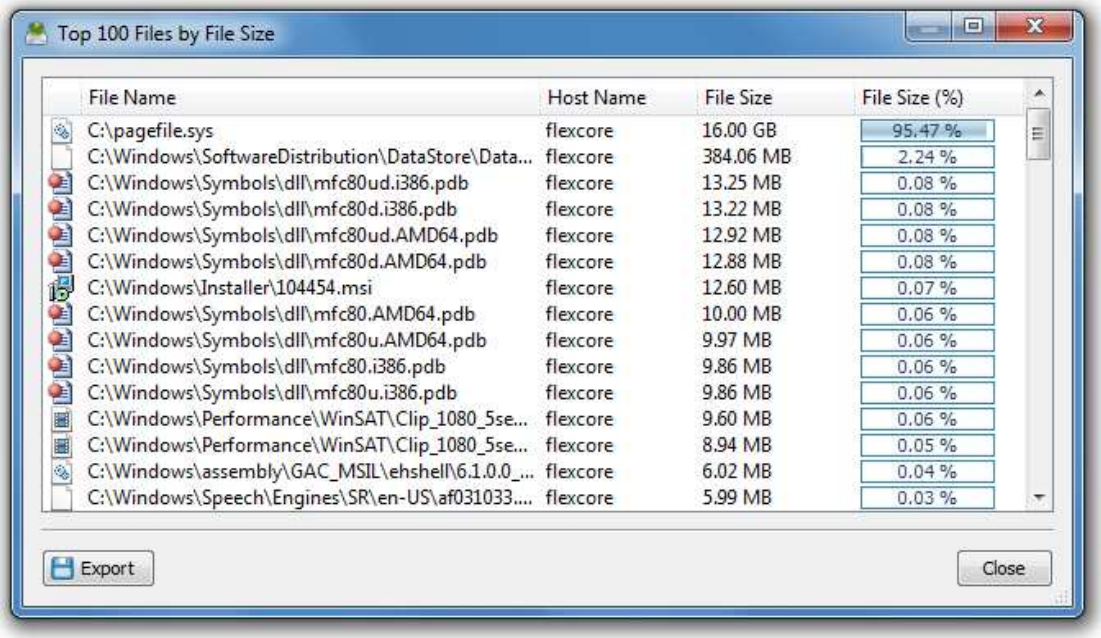
In order to export the list of top 100 directories to a text report file, press the 'Export' button located on the top 100 directories dialog, enter a file name to export the report to and press the 'Save' button.

3.8 Viewing Top 100 Files by File Size

Normally, DiskSavvy displays an hierarchy of analyzed directories and files sorted by the used disk space and allows one to browse subdirectories in order to identify which subdirectories and files are using significant amounts of the disk space. In addition, DiskSavvy provides the ability to display a flat list of top 100 files sorted by the file size.


Disk Savvy Ultimate - Analyze Network Shares
File Command Tools Help
Analyze Pause Stop Network Save Classify Charts Top 100 Up Database Options Layouts Help
Profiles
Analyze Network Shares
Analyze Home Directories
Analyze NAS Server
Name
Space (%)
View Top Directories ...
View Top Files ...

In order to display the list of top 100 files, analyze one or more disks, directories or network shares, press the 'Top 100' button located on the main toolbar and select the 'View Top Files' menu item. For each file, the list of top 100 files shows the full file name, the host name and the file size.

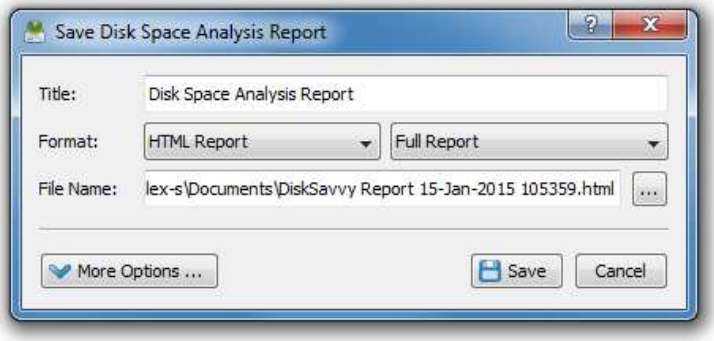

Top 100 Files by File Size
File Name Host Name File Size File Size (%)
C:\pagefile.sys flexcore 16.00 GB 95.47 %
C:\Windows\SoftwareDistribution\DataStore\Data... flexcore 384.06 MB 2.24 %
C:\Windows\Symbols\dll\mfc80ud.i386.pdb flexcore 13.25 MB 0.08 %
C:\Windows\Symbols\dll\mfc80d.i386.pdb flexcore 13.22 MB 0.08 %
C:\Windows\Symbols\dll\mfc80ud.AMD64.pdb flexcore 12.92 MB 0.08 %
C:\Windows\Symbols\dll\mfc80d.AMD64.pdb flexcore 12.88 MB 0.08 %
C:\Windows\Installer\104454.msi flexcore 12.60 MB 0.07 %
C:\Windows\Symbols\dll\mfc80.AMD64.pdb flexcore 10.00 MB 0.06 %
C:\Windows\Symbols\dll\mfc80u.AMD64.pdb flexcore 9.97 MB 0.06 %
C:\Windows\Symbols\dll\mfc80.i386.pdb flexcore 9.86 MB 0.06 %
C:\Windows\Symbols\dll\mfc80u.i386.pdb flexcore 9.86 MB 0.06 %
C:\Windows\Performance\WinSAT\Clip_1080_5se... flexcore 9.60 MB 0.06 %
C:\Windows\Performance\WinSAT\Clip_1080_5se... flexcore 8.94 MB 0.05 %
C:\Windows\assembly\GAC_MSIL\ehshell\6.1.0.0_... flexcore 6.02 MB 0.04 %
C:\Windows\Speech\Engines\SR\en-US\af031033.... flexcore 5.99 MB 0.03 %
Export
Close

By default, DiskSavvy shows all types of files in the currently displayed location. In addition, the user is provided with the ability to show top 100 files for specific types of files or file categories. For example, in order to display top 100 programs and executable files in the Windows system directory, analyze the system hard disk, navigate to the Windows system directory, double click on the 'Programs and Executable Files' file filter in the filters view and then select the 'View Top 100 Files' menu item.

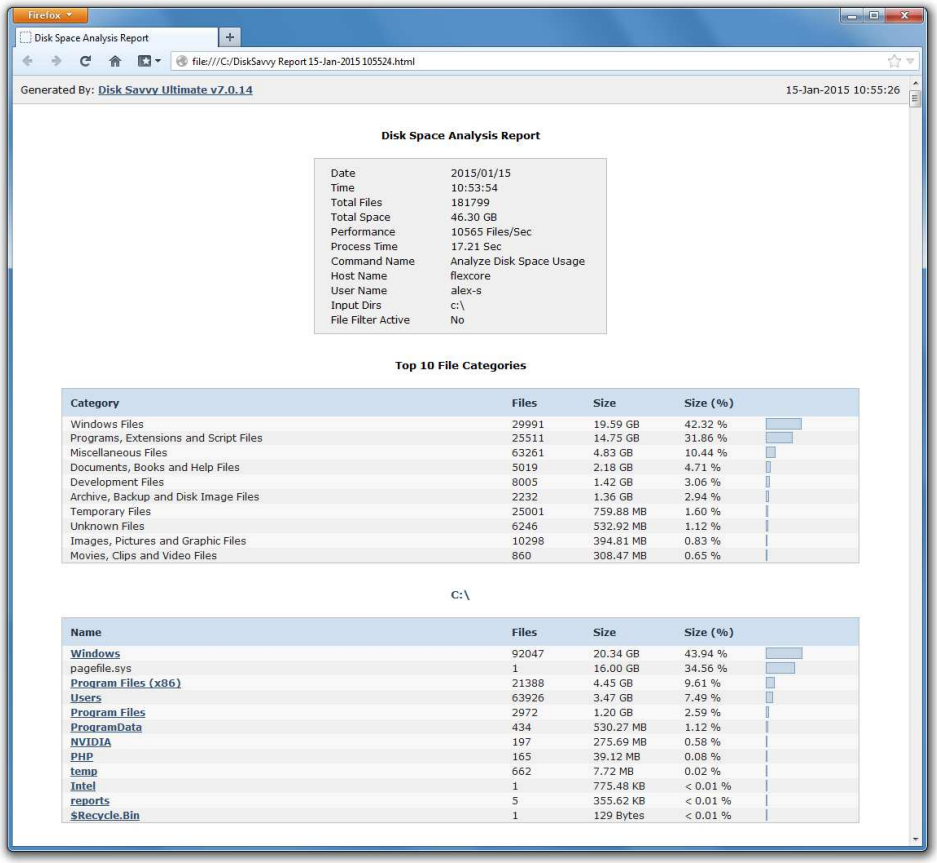
Finally, DiskSavvy provides the ability to export the list of top 100 files to a text report file. In order to export the list of top 100 files, press the 'Export' button located on the top 100 files dialog, enter a file name to export the report to and press the 'Save' button.

3.9 Saving Disk Space Analysis Reports

DiskSavvy provides the ability to save disk space analysis reports to the HTML, PDF, Excel CSV, text and XML formats. In order to export a disk space analysis report, analyze one or more disks or directories and press the 'Save' button located on the main toolbar.



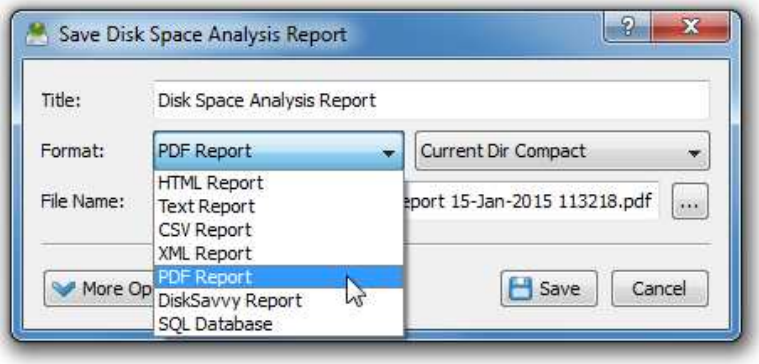
On the 'Save Report' dialog enter the report title, specify the file name to save the report to and select one of the following report formats: HTML, PDF, Excel CSV, text or XML. By default, DiskSavvy will save a disk space analysis report for the directory currently displayed in the disk space analysis results view.


Disk Space Analysis Report
file:///C:/DiskSavvy Report 15-Jan-2015 105524.html
Generated By: Disk Savvy Ultimate v7.0.14
15-Jan-2015 10:55:26
Disk Space Analysis Report
Date 2015/01/15
Time 10:53:54
Total Files 181799
Total Space 46.30 GB
Performance 10565 Files/Sec
Process Time 17.21 Sec
Command Name Analyze Disk Space Usage
Host Name flexcore
User Name alex-s
Input Dirs c:\
File Filter Active No
Top 10 File Categories
Category Files Size Size (%)
Windows Files 29991 19.59 GB 42.32 %
Programs, Extensions and Script Files 25511 14.75 GB 31.86 %
Miscellaneous Files 63261 4.83 GB 10.44 %
Documents, Books and Help Files 5019 2.18 GB 4.71 %
Development Files 8005 1.42 GB 3.06 %
Archive, Backup and Disk Image Files 2232 1.36 GB 2.94 %
Temporary Files 25001 759.88 MB 1.60 %
Unknown Files 6246 532.92 MB 1.12 %
Images, Pictures and Graphic Files 10298 394.81 MB 0.83 %
Movies, Clips and Video Files 860 308.47 MB 0.65 %
C:\
Name Files Size Size (%)
Windows 92047 20.34 GB 43.94 %
pagefile.sys 1 16.00 GB 34.56 %
Program Files (x86) 21388 4.45 GB 9.61 %
Users 63926 3.47 GB 7.49 %
Program Files 2972 1.20 GB 2.59 %
ProgramData 434 530.27 MB 1.12 %
NVIDIA 197 275.69 MB 0.58 %
PHP 165 39.12 MB 0.08 %
temp 662 7.72 MB 0.02 %
Intel 1 775.48 KB < 0.01 %
reports 5 355.62 KB < 0.01 %
$Recycle.Bin 1 129 Bytes < 0.01 %

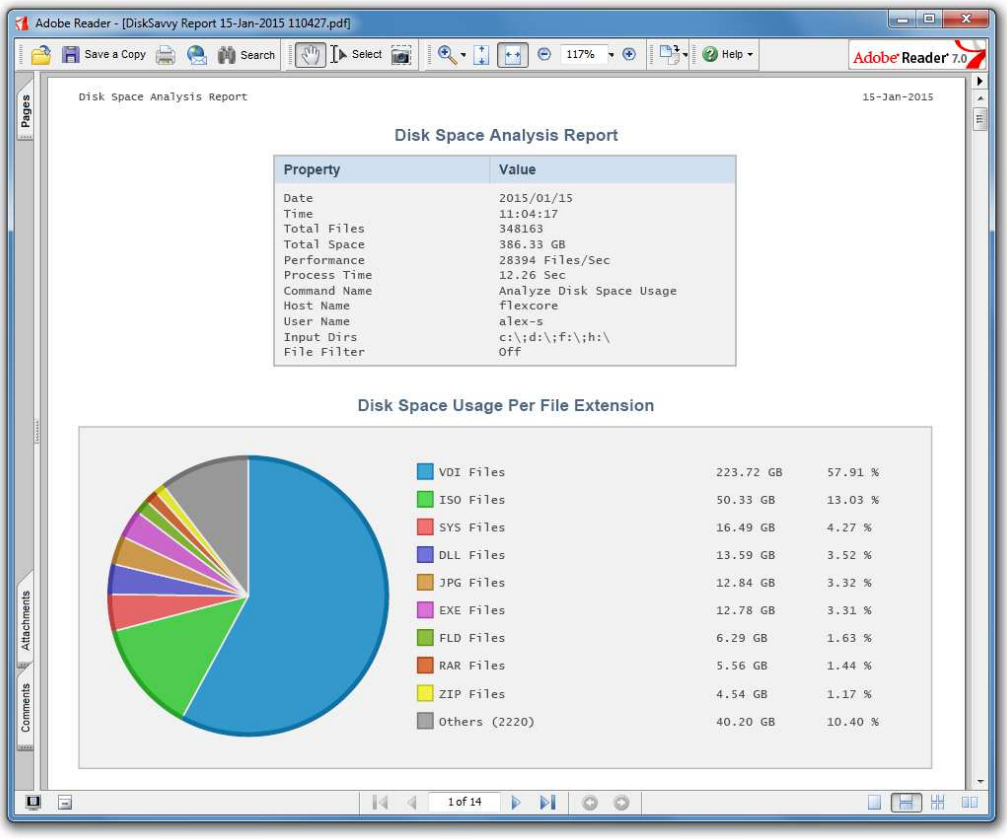
In order to export a full report containing all subdirectories and files, select the 'Full Report' option on the right side of the report format selector. Keep in mind that disk space analysis reports for large file systems containing millions of files may be very large and difficult to open using standard tools especially when exported to the HTML format. In order to decrease the size of the report file, press the 'More Options' button to show advanced reporting options and reduce the number of report levels and/or the number of files per directory.

3.10 Saving Graphical PDF Reports

DiskSavvy allows one to save disk space analysis results to graphical PDF reports. In addition to the information available in other report formats, DiskSavvy PDF reports include pie charts showing the number of files and the used disk space per file category according to the currently selected file categorization mode. In addition, when a PDF report is saved with an active file filter, the report will also include the list of selected file filters.

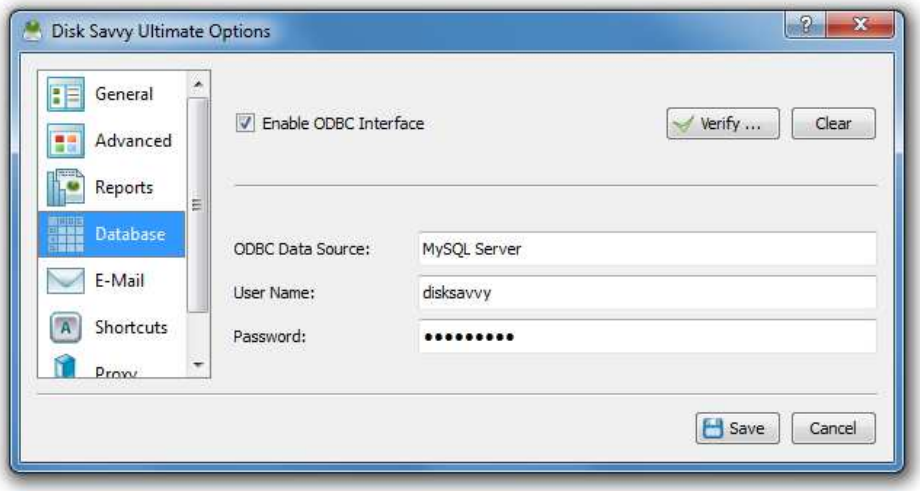


In order to export a PDF report, analyze one or more disks, directories or network shares and press the 'Save' button located on the main toolbar. On the save report dialog, select the PDF report format, enter a report title, the name of the file to save the report to and press the 'Save' button. By default, DiskSavvy exports a short report showing the currently displayed directory with all files and up to three levels of subdirectories. In order to export a full disk space analysis report, which may result in a very long PDF document for large file systems, select the 'Full Report' export mode.

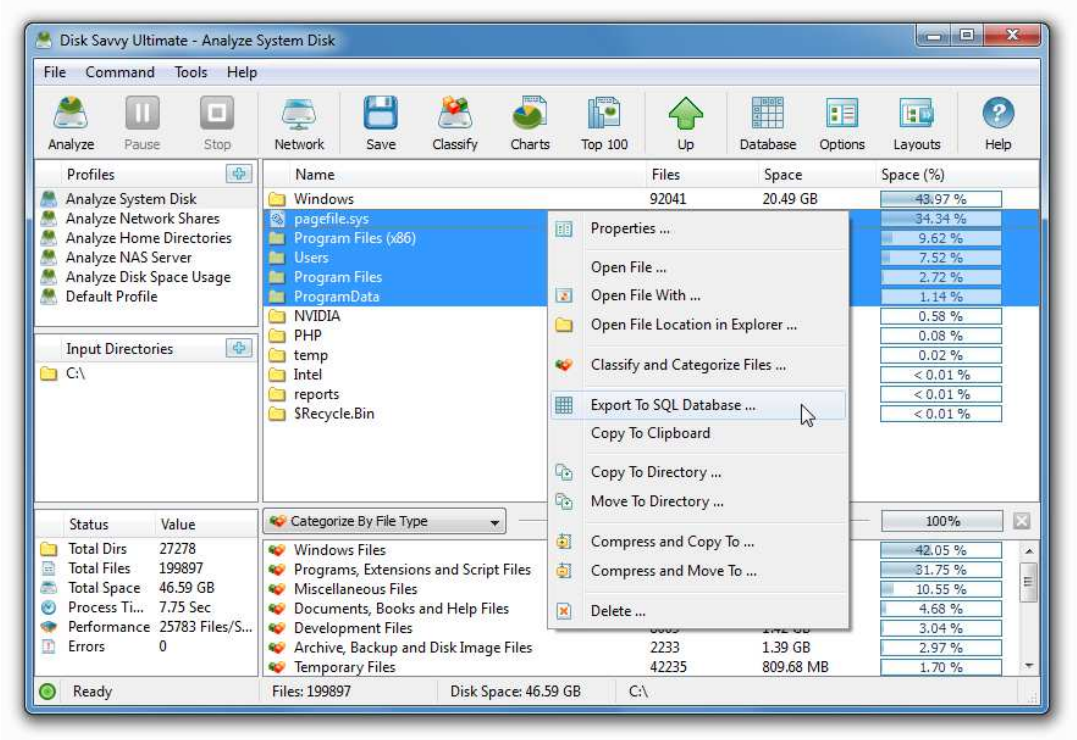

Adobe Reader - [DiskSavvy Report 15-Jan-2015 110427.pdf]
Disk Space Analysis Report
15-Jan-2015
Disk Space Analysis Report
Property
Value
Date 2015/01/15
Time 11:04:17
Total Files 348163
Total Space 386.33 GB
Performance 28394 Files/Sec
Process Time 12.26 Sec
Command Name Analyze Disk Space Usage
Host Name flexcore
User Name alex-s
Input Dirs c:\;d:\;f:\;h:\
File Filter Off
Disk Space Usage Per File Extension
VDI Files 223.72 GB 57.91 %
ISO Files 50.33 GB 13.03 %
SYS Files 16.49 GB 4.27 %
DLL Files 13.59 GB 3.52 %
JPG Files 12.84 GB 3.32 %
EXE Files 12.78 GB 3.31 %
FLD Files 6.29 GB 1.63 %
RAR Files 5.56 GB 1.44 %
ZIP Files 4.54 GB 1.17 %
Others (2220) 40.20 GB 10.40 %
1 of 14

3.11 Exporting Disk Space Analysis Results to an SQL Database

DiskSorter Ultimate and DiskSorter Server provide the ability to export disk space analysis results to an SQL database via the ODBC database interface. In order to be able to export disk space analysis results to an SQL database, the user needs to configure the ODBC database interface on the main options dialog.

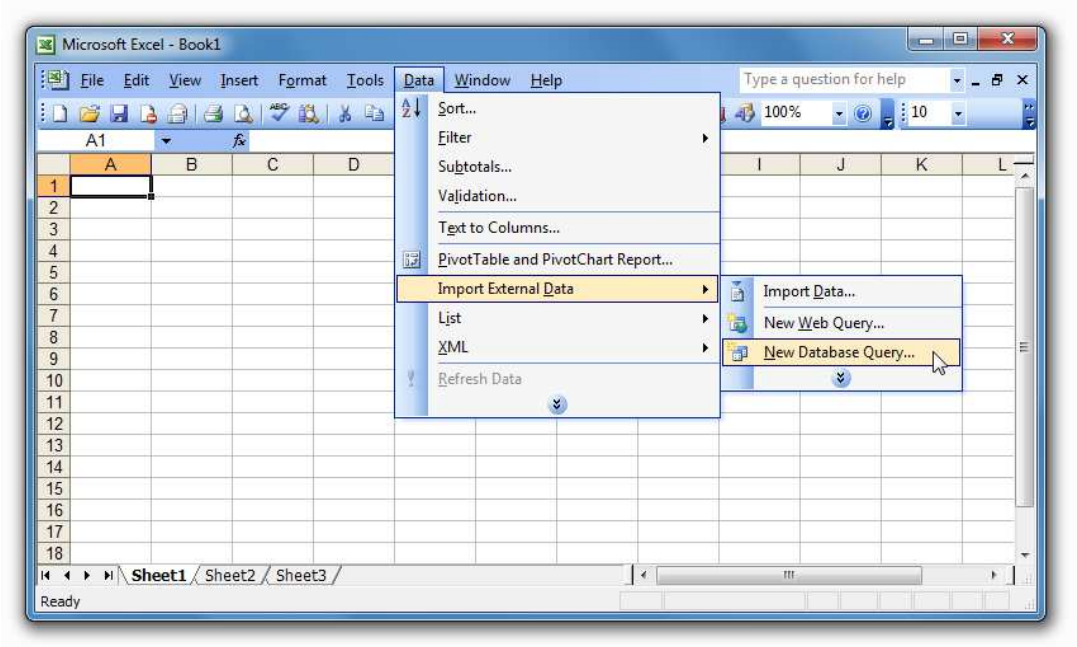


In order to configure the ODBC interface, open the main options dialog, select the 'Database' tab, enable the ODBC database interface, enter the ODBC data source name, the ODBC user name and password to use to connect to the SQL database and then press the 'Verify' button to check the specified ODBC interface.

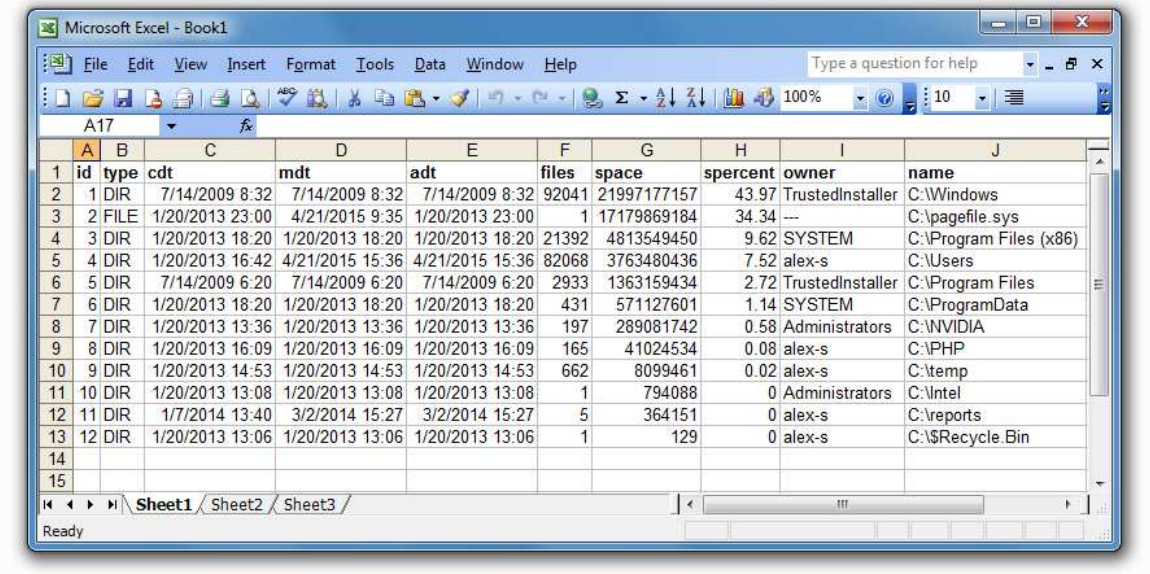


Once finished configuring the ODBC database interface, select one or more directories and/or files, press the right mouse button, select the 'Export To SQL Database' menu item and enter the name of the SQL database table to export disk space analysis results to. DiskSavvy will connect to the specified SQL database and export the selected disk space analysis results to the specified SQL database table.

In order to import disk space analysis results from an SQL database to Microsoft Excel, select the menu 'Data - Import External Data - New Database Query' menu item, select the ODBC data source to import the data from, select the SQL database table name that was specified during the export operation, select SQL database table columns to be imported, optionally select the data sorting mode and press the 'Finish' button.



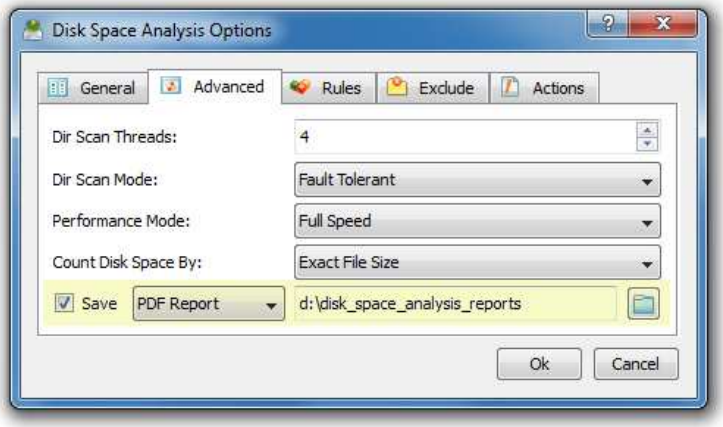
For each disk space analysis result, DiskSavvy exports to the SQL database the following columns of data: a unique result ID, the type of the result (DIR or FILE), the creation date, the last modification date, the last access date, the total number of files in a directory, the total size of all files in the directory, the percentage of the disk space used by all files in the directory, the user name of the file or directory and the full name.



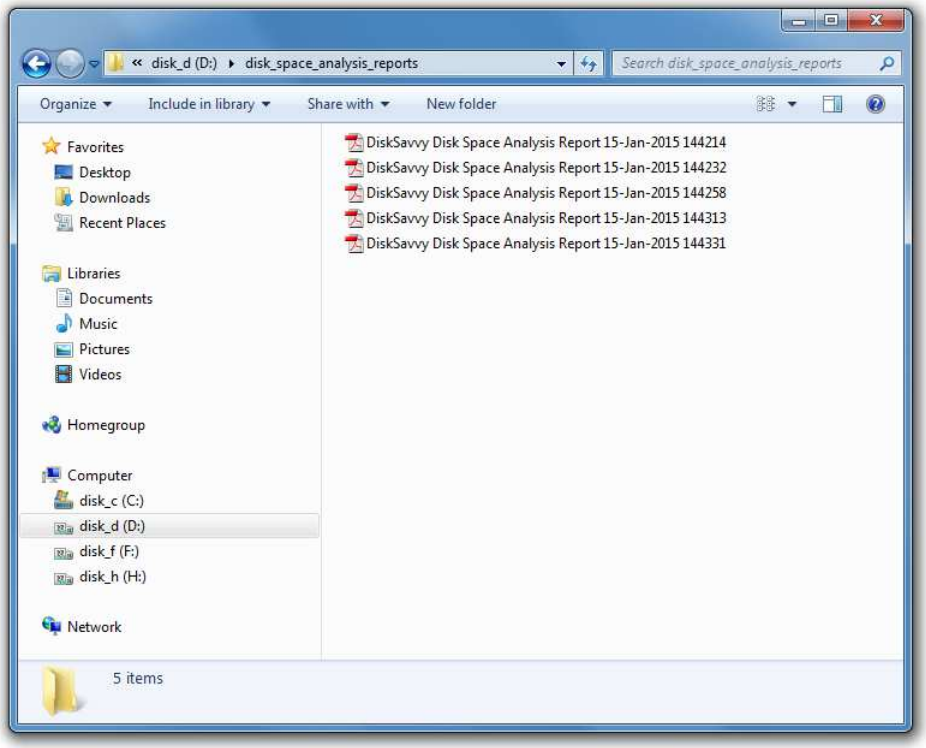
id	type	cdt	mdt	adt	files	space	spercent	owner	name
1	DIR	7/14/2009 8:32	7/14/2009 8:32	7/14/2009 8:32	92041	21997177157	43.97	TrustedInstaller	C:\Windows
2	FILE	1/20/2013 23:00	4/21/2015 9:35	1/20/2013 23:00	1	17179869184	34.34	---	C:\pagefile.sys
3	DIR	1/20/2013 18:20	1/20/2013 18:20	1/20/2013 18:20	21392	4813549450	9.62	SYSTEM	C:\Program Files (x86)
4	DIR	1/20/2013 16:42	4/21/2015 15:36	4/21/2015 15:36	82068	3763480436	7.52	alex-s	C:\Users
5	DIR	7/14/2009 6:20	7/14/2009 6:20	7/14/2009 6:20	2933	1363159434	2.72	TrustedInstaller	C:\Program Files
6	DIR	1/20/2013 18:20	1/20/2013 18:20	1/20/2013 18:20	431	571127601	1.14	SYSTEM	C:\ProgramData
7	DIR	1/20/2013 13:36	1/20/2013 13:36	1/20/2013 13:36	197	289081742	0.58	Administrators	C:\NVIDIA
8	DIR	1/20/2013 16:09	1/20/2013 16:09	1/20/2013 16:09	165	41024534	0.08	alex-s	C:\PHP
9	DIR	1/20/2013 14:53	1/20/2013 14:53	1/20/2013 14:53	662	8099461	0.02	alex-s	C:\temp
10	DIR	1/20/2013 13:08	1/20/2013 13:08	1/20/2013 13:08	1	794088	0	Administrators	C:\Intel
11	DIR	1/7/2014 13:40	3/2/2014 15:27	3/2/2014 15:27	5	364151	0	alex-s	C:\reports
12	DIR	1/20/2013 13:06	1/20/2013 13:06	1/20/2013 13:06	1	129	0	alex-s	C:\$Recycle.Bin

3.12 Automatic Generation of Disk Space Analysis Reports

In addition to the ability to save disk space analysis reports manually, DiskSavvy Ultimate and DiskSavvy Server allow one to automatically save HTML, PDF, XML, text, Excel CSV or SQL database reports for each performed disk space analysis operation. This capability is especially useful for pre-configured, periodic disk space analysis operations and allowing one to keep track of disk space usage trends over time.



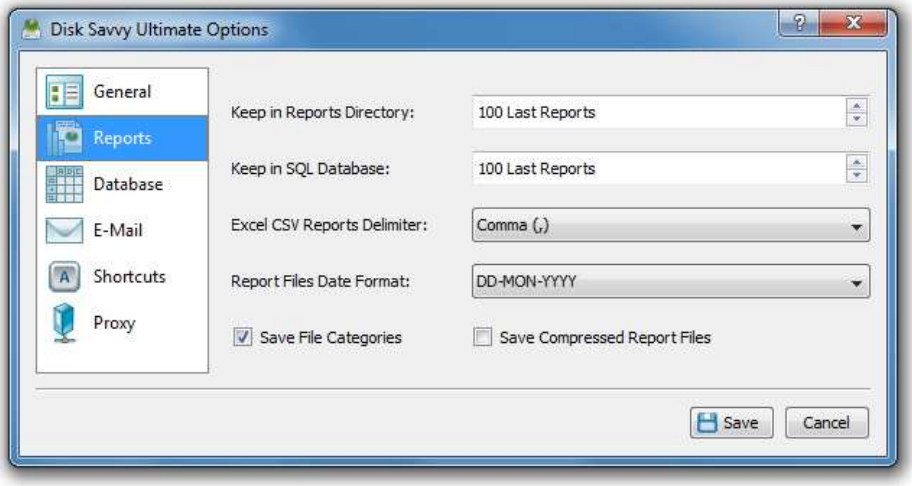
In order to configure automatic report generation for a disk space analysis operation, open the disk space analysis options dialog, select the 'Advanced' tab, enable the 'Save Report' option, select an appropriate report format and specify a directory to save reports in. Every time the disk space analysis operation will be executed, DiskSavvy will save a report in the specified directory with an automatically generated file name, which will include the date and time of the report.



In addition, in order to prevent excessive disk space usage, the user is provided with the ability to automatically delete old report files from the reports directory while keeping a user-specified number of latest disk space analysis reports for future review and analysis.

3.13 Advanced Report Management Options

DiskSavvy allows one to keep a user-specified number of reports in a reports directory or an SQL database while automatically deleting old reports and freeing up the used disk space. These features are especially useful for fully automated disk space analysis operations when the user needs to keep a history of report files in a reports directory or a history of reports in the SQL database.



The '**Keep in Reports Directory**' option is applicable to HTML, PDF, text, Excel CSV, XML and DiskSavvy native reports saved in a reports directory using the DiskSavvy GUI application or the DiskSavvy command line utility. After saving each new report file, DiskSavvy will check if there are too many reports of the same type (HTML, PDF, XML, CSV, etc.) in the reports directory and delete old reports according to the user-specified configuration.

The '**Keep in SQL Database**' option is applicable to reports submitted to an SQL database using the DiskSavvy GUI application or the DiskSavvy command line utility. After saving each new report to the SQL database, DiskSavvy will check if there are too many reports from the same host computer, for the same set of input disks and directories and delete old reports according to the user-specified configuration.

The '**Excel CSV Reports Delimiter**' option provides the ability to customize the Excel CSV reports field delimiter. Normally, CSV reports are saved with the comma ',' character as the field delimiter, but the comma character is a valid file name character and therefore file names containing the comma character will span multiple data fields in an Excel CSV datasheet. In order to properly export file names containing the comma character to CSV reports, the user needs to change the Excel CSV reports field delimiter to the Tab character, which cannot be used in file names.

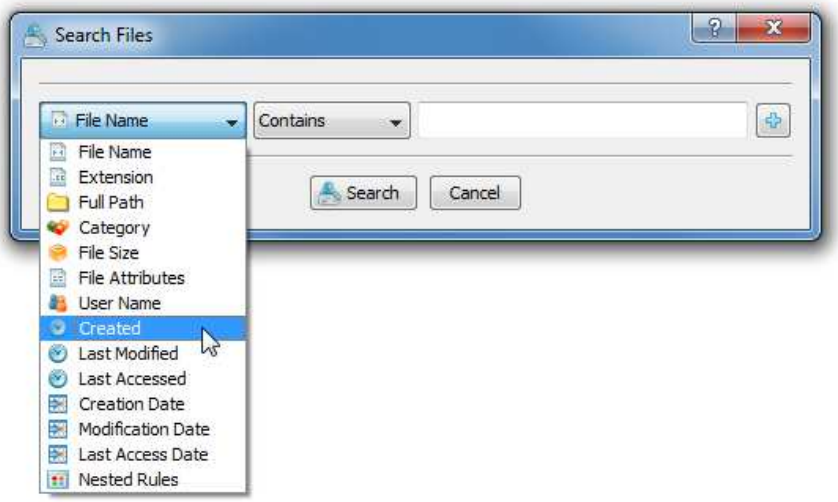
The '**Report Files Date Format**' option provides the ability to customize the reports date format. By default, DiskSavvy uses an easily readable date format. In addition, the user is provided with a number of alternative date formats and allowing one to sort disk space analysis results by the last modification date in Excel CSV reports.

The '**Save File Categories**' option allows one to enable/disable exporting of file categories to HTML, PDF, text, Excel CSV and XML reports. The second-level file categories are available when reports are saved using the DiskSavvy GUI application manually. Automatically generated reports or reports saved using the DiskSavvy command line utility always saved without file categories. When the 'Save File Categories' option is enabled, DiskSavvy GUI application will save second-level file categories to HTML, text, Excel CSV and XML reports.

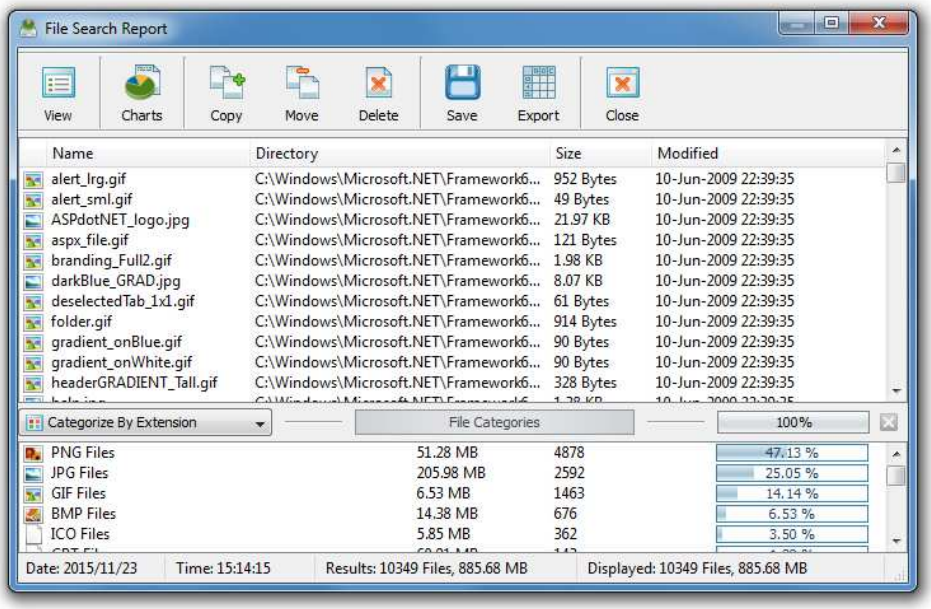
The '**Save Compressed Report Files**' option allows one to save automatically generated HTML, text, Excel CSV and XML reports as GZ compressed archive files.

3.14 Searching Files in Disk Space Analysis Results

DiskSavvy provides the ability to search files in disk space analysis results by the file name, extension, full path, file category, file size, file attributes, creation, last modification and last access dates. In order to start a file search operation, analyze one or more disks or directories and press the 'Search' button located on the main toolbar.



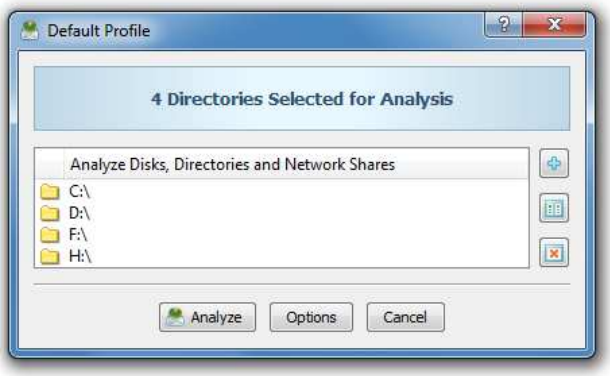
By default, the search operation will be performed on all disk space analysis results. In order to search files in a specific disk, directory or network share, select one or more directories in the disk space analysis results view, press the right mouse button and select the 'Search Files' menu item. DiskSavvy will search in the selected directories and display the file search results dialog showing a list of files matching the user specified criteria.



The search results dialog allows one to filter and categorize file search results, display various types of pie charts, copy, move and/or delete files, export file search results to a number of standard report formats including PDF, HTML, text, Excel CSV and XML. In addition, advanced users are provided with the ability to export file search results to an SQL database.

3.15 Analyzing Multiple Disks or Directories

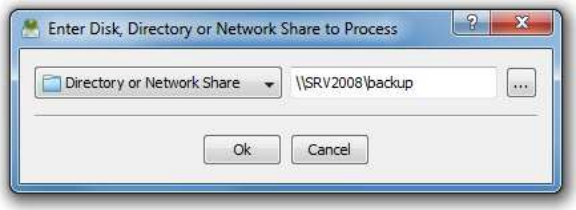
DiskSavvy is capable of performing disk usage analysis in a number of disks, directories or network shares simultaneously. In order to analyze multiple locations, open the disk space analysis profile dialog, press the 'Add' button located on the right side of the list of analysis locations and add all the disks, directories and/or network shares that should be analyzed.



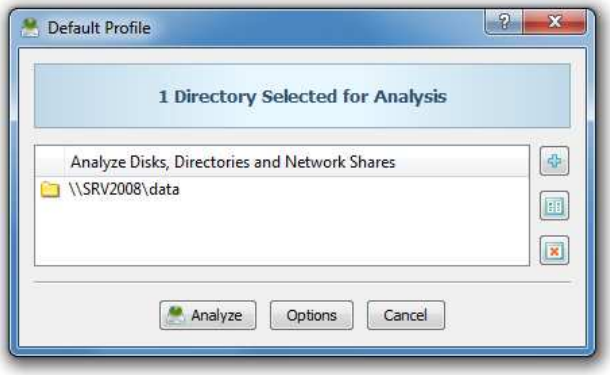
DiskSavvy is optimized for modern multi-CPU and multi-core systems and is capable of analyzing multiple disk, directories and/or network shares in parallel. In order to enable parallel analysis of multiple disks and directories, open the disk space analysis options dialog, select the 'Advanced' tab and specify the number of parallel processing threads to use to scan disks and directories.

3.16 Analyzing Network Shares Using UNC Path Names

In order to simplify the disk space analysis process for networked computers and/or NAS storage devices, DiskSavvy allows one to specify network shares and directories that should be processed using UNC path names without mounting each network share as a local disk.

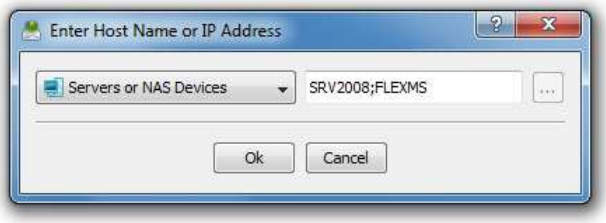


When working with UNC path names, it is important to keep in mind that all file management operations such as copy, move and delete will be performed using UNC path names and the user should have appropriate permissions on each specific network share and/or NAS storage device.

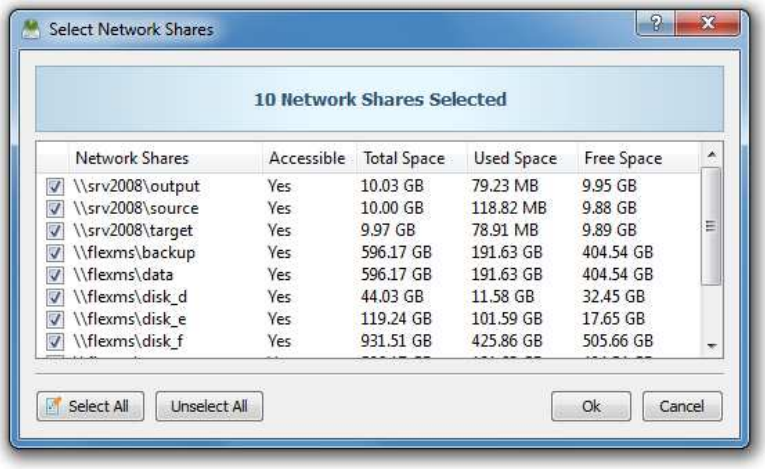


3.17 Analyzing Network Servers and NAS Storage Devices

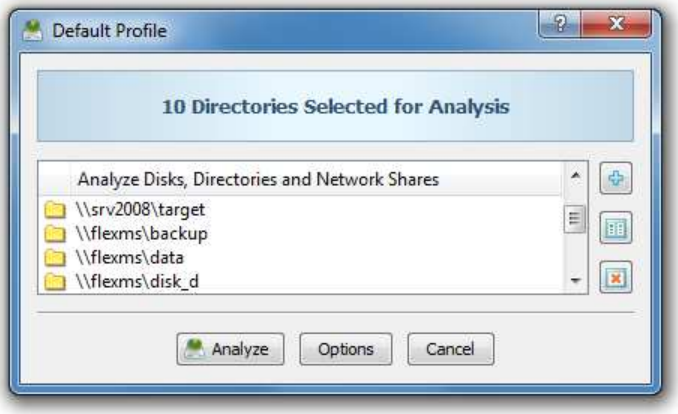
DiskSavvy allows one to analyze disk space usage in all network shares of one or more servers or NAS storage devices on the network. In order to analyze one or more servers, open the disk space analysis dialog, press the 'Add' button located on the right side of the list of analysis locations, select the 'Analyze Servers or NAS Devices' mode and enter one or more host names or IP addresses separated by the semicolon (;) character.



DiskSavvy will scan the network and show a list of network shares detected in the specified servers and NAS storage devices allowing one to select one or more network shares that should be analyzed. In order to be able to use this feature, the user needs to have permissions to access network shares.

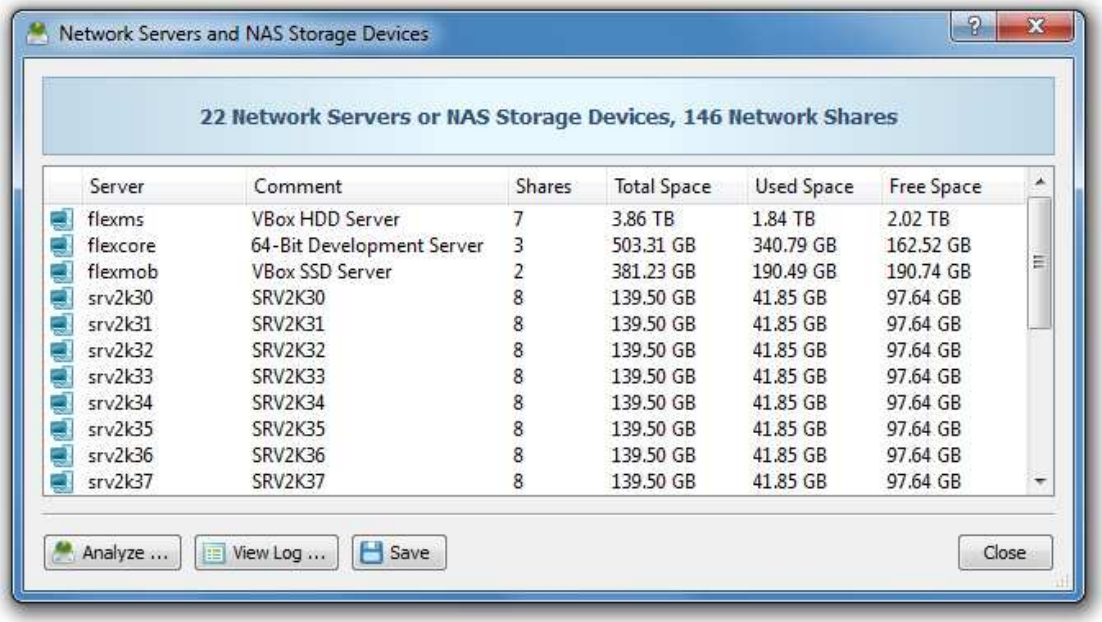

Select Network Shares
10 Network Shares Selected
Network Shares Accessible Total Space Used Space Free Space
\\srv2008\output Yes 10.03 GB 79.23 MB 9.95 GB
\\srv2008\source Yes 10.00 GB 118.82 MB 9.88 GB
\\srv2008\target Yes 9.97 GB 78.91 MB 9.89 GB
\\flexms\backup Yes 596.17 GB 191.63 GB 404.54 GB
\\flexms\data Yes 596.17 GB 191.63 GB 404.54 GB
\\flexms\disk_d Yes 44.03 GB 11.58 GB 32.45 GB
\\flexms\disk_e Yes 119.24 GB 101.59 GB 17.65 GB
\\flexms\disk_f Yes 931.51 GB 425.86 GB 505.66 GB
Select All
Unselect All
Ok
Cancel

The network shares scanning operation may be performed multiple times for different servers and NAS storage devices and an unlimited number of network shares from different servers may be added to the disk space analysis operation. During runtime, DiskSavvy will analyze all the specified network shares in parallel using all CPUs and/or CPU-cores available in the host computer DiskSavvy is running on.

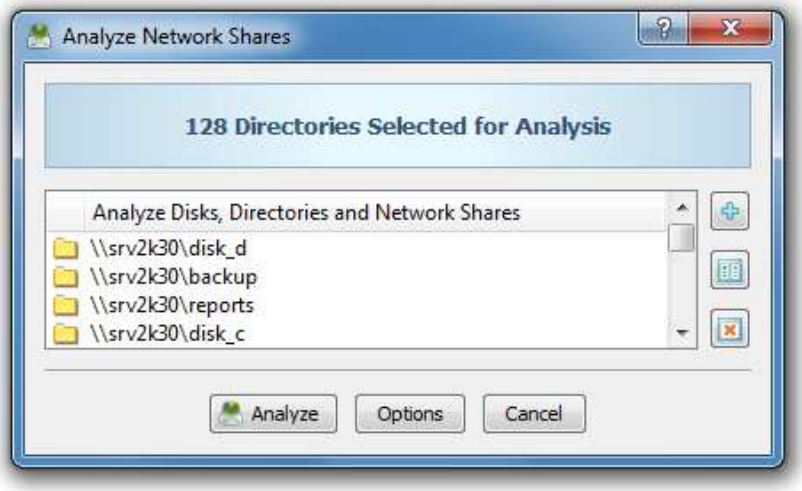


3.18 Discovering Network Servers and NAS Storage Devices

DiskSavvy allows one to scan the network, discover network servers and NAS storage devices, automatically detect all accessible network shares and analyze disk space usage in hundreds of network servers and NAS storage devices. In addition, the user is provided with the ability to export the list of detected servers and NAS storage devices (including lists of network shares for each server) into HTML, PDF, text and Excel CSV reports.



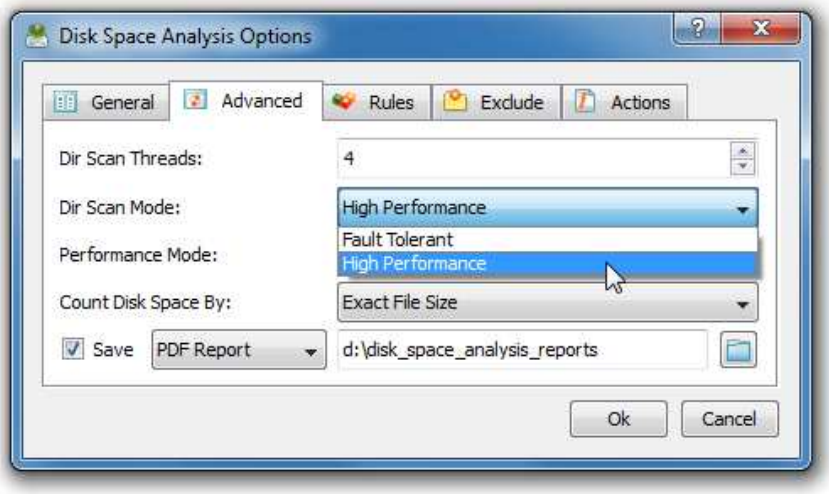
In order to discover all network servers and NAS storage devices on the network, press the 'Network' button located on the main toolbar and wait while DiskSavvy will scan the network and show a list of detected network servers and NAS storage devices. In order to analyze disk space usage in one or more servers or NAS storage devices, select the required servers and NAS storage devices and press the 'Analyze' button.



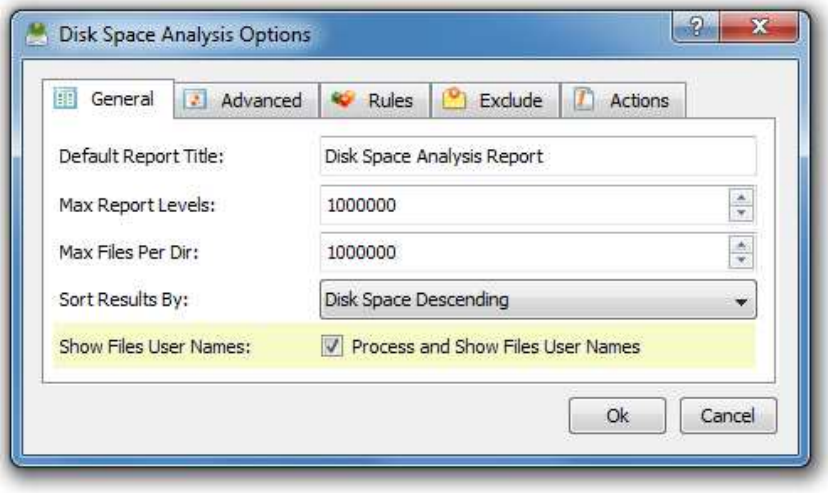
DiskSavvy will show all accessible network shares hosted on the selected servers and NAS storage devices allowing one to analyze disk space usage and save various types of disk space analysis charts and reports. In addition, the user is provided with the ability to customize a large number of advanced disk space analysis options allowing one to tune disk space analysis operations for user specific needs and hardware configurations.

3.19 Disk Space Analysis Performance

DiskSavvy is optimized for modern multi-core and multi-CPU systems and is capable of parallelizing disk space analysis operations to an unlimited number of CPUs. DiskSavvy provides a number of different performance optimization options allowing one to tune disk space analysis operations for user-specific hardware and storage configurations.

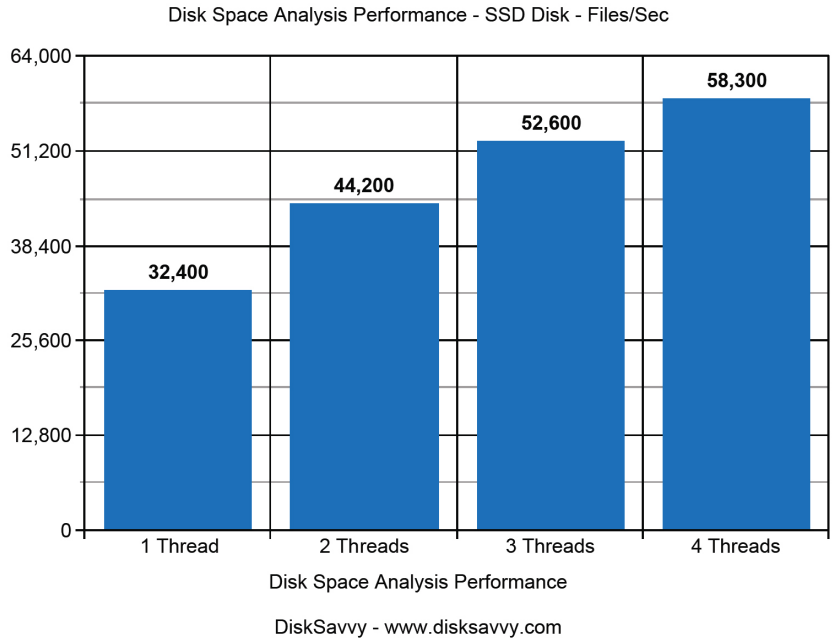


In order to access the disk space analysis performance optimization options, open the disk space analysis options dialog and select the 'Advanced' tab. The 'Dir Scan Threads' option controls how many parallel disk space analysis threads are used to scan input disks, directories and network shares. In the 'Fault-Tolerant' directory scanning mode, DiskSavvy uses an individual processing thread for each input disk, directory or network share, but limits the maximum number of parallel scanning threads to the specified value. In the high-performance directory scanning mode, DiskSavvy always uses the specified number of parallel directory scanning threads even when processing a single input disk or directory.

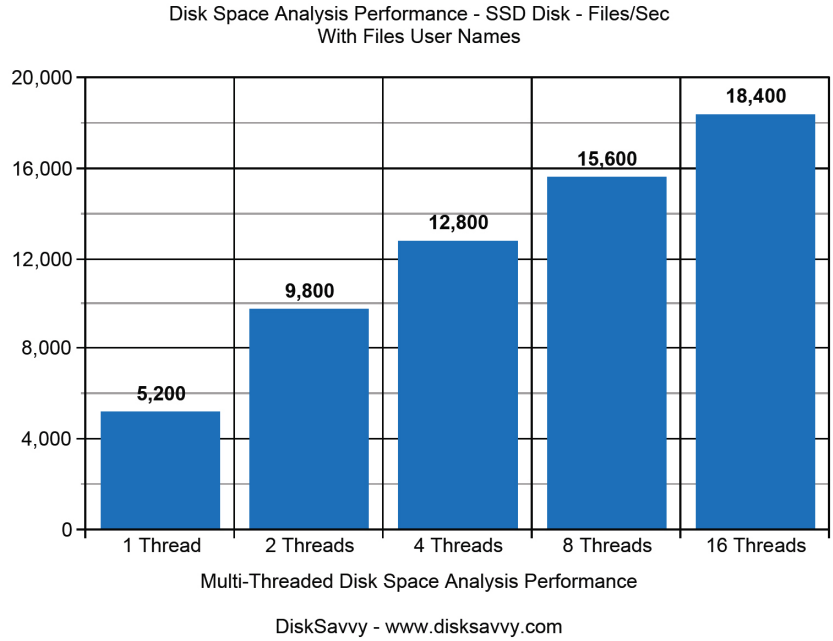


DiskSavvy provides the ability to show disk space usage statistics per user, but this capability significantly slows down disk space analysis operations especially when analyzing files via a slow, high-latency network. By default, due to performance considerations, this option is disabled and if the user needs to enable this capability, it is highly recommended to install DiskSavvy on a modern multi-CPU or multi-core server and configure the disk space analysis operation to use at least 4 parallel directory scanning threads.

For example, when analyzing files stored on a local SSD disk, the speed of the disk space analysis process reaches up to 32,400 Files/Sec using a single directory scanning thread and scales up to 58,300 Files/Sec when the same set of files is analyzed using 4 parallel directory scanning threads.

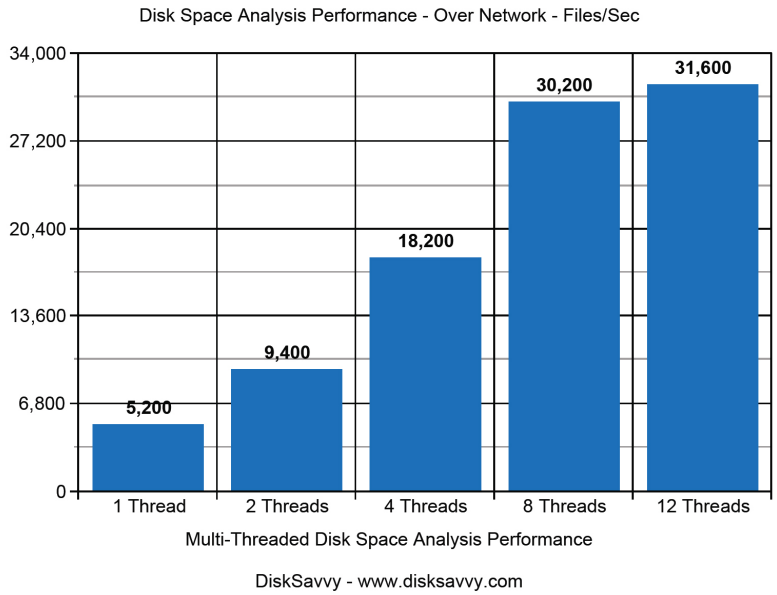


When the same disk space analysis operation is performed with the option to process and show user names enabled, the speed of the disk space analysis process reaches up to 5,200 Files/Sec for a single directory scanning thread and scales up to 18,400 Files/Sec when the same set of files is analyzed using 16 parallel directory scanning threads.

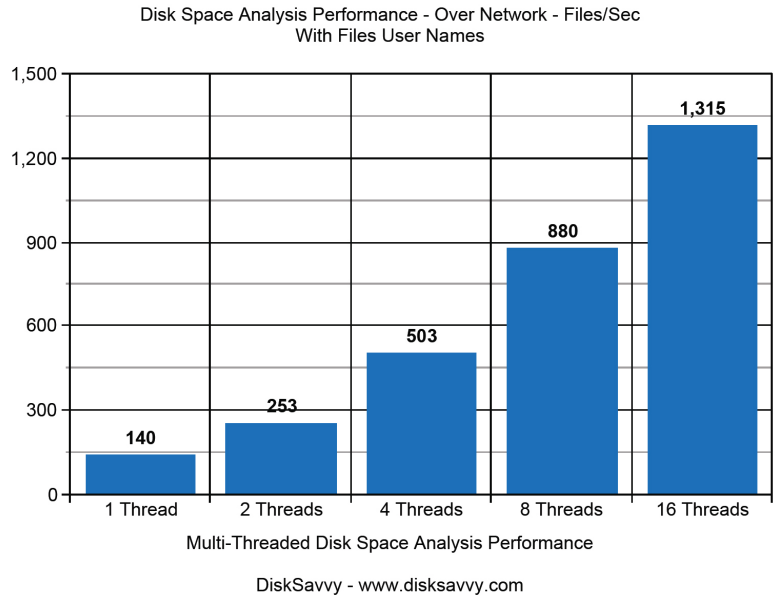


The operation of inquiring the user name for a file is a relatively slow operation, which takes a considerable amount of time and in order to mitigate the performance degradation it is highly recommended to use at least 4-8 parallel directory scanning threads even on a dual-core or quad-core system. When a disk space analysis operation is configured to use multiple directory scanning threads, DiskSavvy will inquire user names for multiple files simultaneously thus significantly improving the speed of disk space analysis operations.

The speed of disk space analysis operations performed over the network highly depends on the network latency and the number of parallel directory scanning threads configured for the disk space analysis operation. Also, if the user needs to analyze a single network share containing millions of files, it is recommended to use the 'High-Performance' directory scanning mode, which uses multiple, parallel directory threads even when analyzing a single input directory or network share.



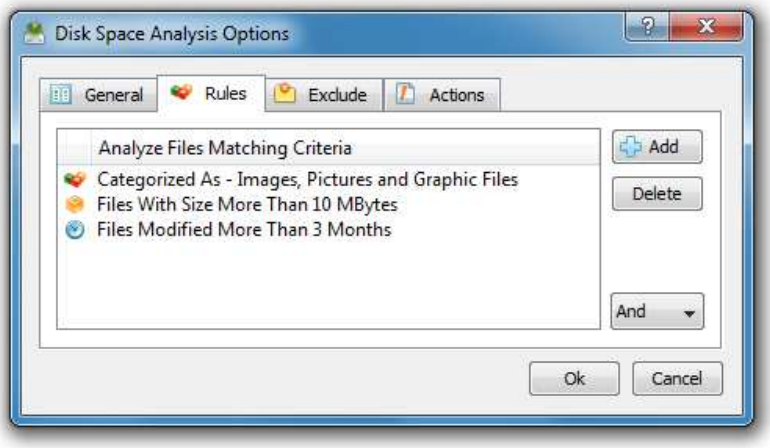
For example, the speed of a disk space analysis operation performed via the network reaches up to 5,200 Files/Sec when configured to use a single directory scanning thread and scales up to 30,200 Files/Sec when the same disk space analysis operation is performed using 8 parallel directory scanning threads.



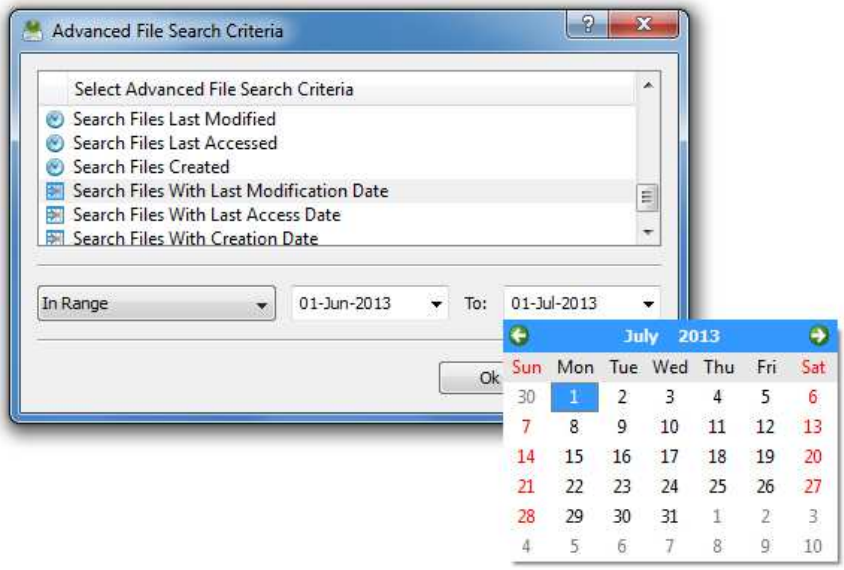
Inquiring the user name for a file over the network is a very slow operation which significantly reduces the performance of the disk space analysis process and in order to reach an acceptable analysis speed, the disk space analysis operation should be configured to use the 'High-Performance' directory scanning mode and at least 8 parallel directory scanning threads even on a dual-core or quad-core system. For example, a disk space analysis operation performed over the network with the option to process and show user names enabled, reaches just 140 Files/Sec using a single directory scanning thread and scales up to 1,315 Files/Sec when the same operation is performed using 16 parallel directory scanning threads.

3.20 Analyzing Disk Usage for Specific Types of Files

DiskSavvy Pro provides power computer users with the ability to perform disk space analysis for specific file types according to one or more file matching rules. For example, the user may specify to analyze disk space usage for all types of image files with the file size more than 10 MB that were modified more than 3 months ago.



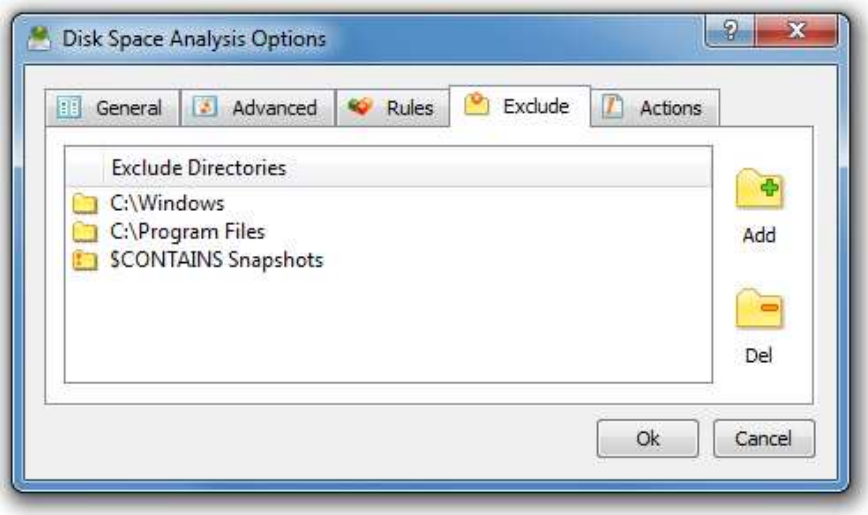
In order to add one or more file matching rules, open the profile dialog, select the 'Rules' tab and press the 'Add' button. On the 'Rules' dialog select an appropriate rule type and specify all the required parameters.


Advanced File Search Criteria
Select Advanced File Search Criteria
Search Files Last Modified
Search Files Last Accessed
Search Files Created
Search Files With Last Modification Date
Search Files With Last Access Date
Search Files With Creation Date
In Range
01-Jun-2013
To:
01-Jul-2013
Ok
July 2013
Sun Mon Tue Wed Thu Fri Sat
30 1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31 1 2 3
4 5 6 7 8 9 10

During the disk space analysis process, DiskSavvy Pro will process all the entered input directories and apply the specified file matching rules to all the existing files. Files not matching the specified rules will be skipped from the disk usage analysis process and the results view will contain user-selected files only.

3.21 Excluding Subdirectories from Disk Space Analysis Process

Sometimes, it may be required to exclude one or more subdirectories from the disk space analysis process. For example, if you need to analyze a disk excluding one or two special directories, you may specify the whole disk as an input directory and add the directories that should be skipped to the exclude list.



In order to add one or more directories to the exclude list, open the disk space analysis profile dialog, press the 'Options' button, select the 'Exclude' tab and press the 'Add' button. All files and subdirectories located in the specified exclude directory will be excluded from the disk usage analysis process. In addition, advanced users are provided with a number of exclude directories macro commands allowing one to exclude multiple directories using a single macro command.

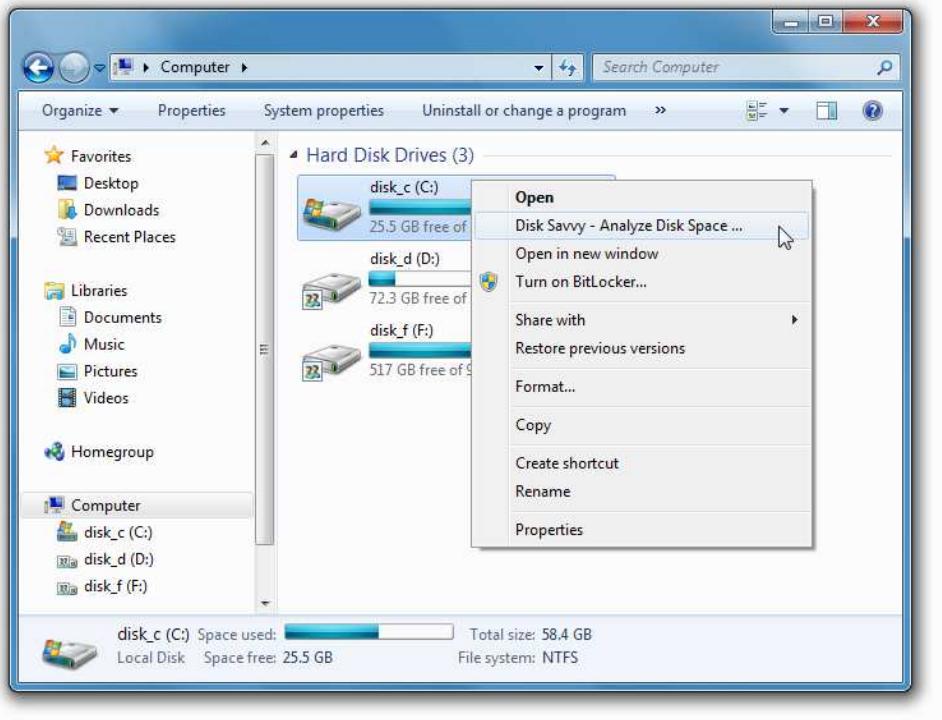
DiskSavvy provides the following exclude directories macro commands:

- **$BEGINS <Text String>** - this macro command excludes all directories beginning with the specified text string.
- **$CONTAINS <Text String>** - this macro command excludes all directories containing the specified text string.
- **$ENDS <Text String>** - this macro command excludes all directories ending with the specified text string.
- **$REGEX <Regular Expression>** - this macro command excludes directories matching the specified regular expression.

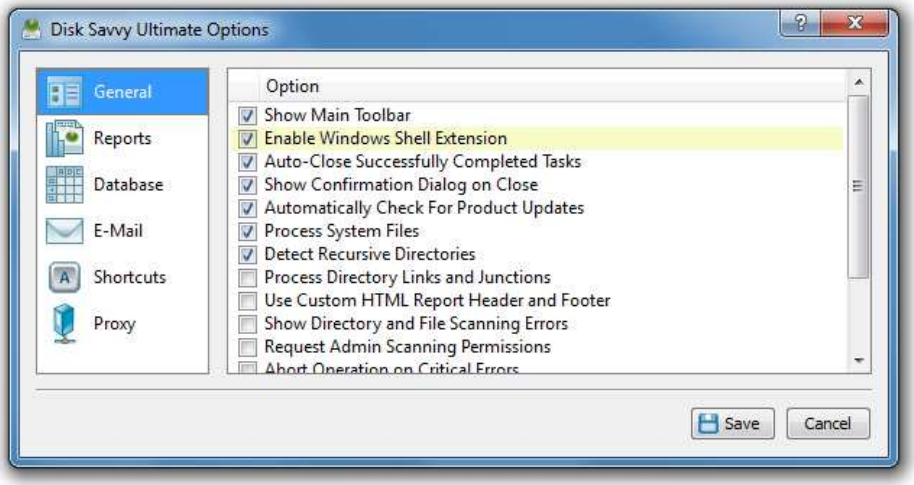
For example, the exclude macro command '$CONTAINS Temporary Files' will exclude all directories with 'Temporary Files' in the full directory path and the exclude macro command '$REGEX \.(TMP|TEMP)$' will exclude directories ending with '.TMP' or '.TEMP'.

3.22 Windows Shell Extension

DiskSavvy provides a Windows shell extension allowing one to analyze disk space usage directly from the Windows Explorer application. In order to analyze one or more disks or directories, select the required disks or directories in the Windows Explorer application, press the right mouse button and select the 'DiskSavvy - Analyze Disk Space' menu item.

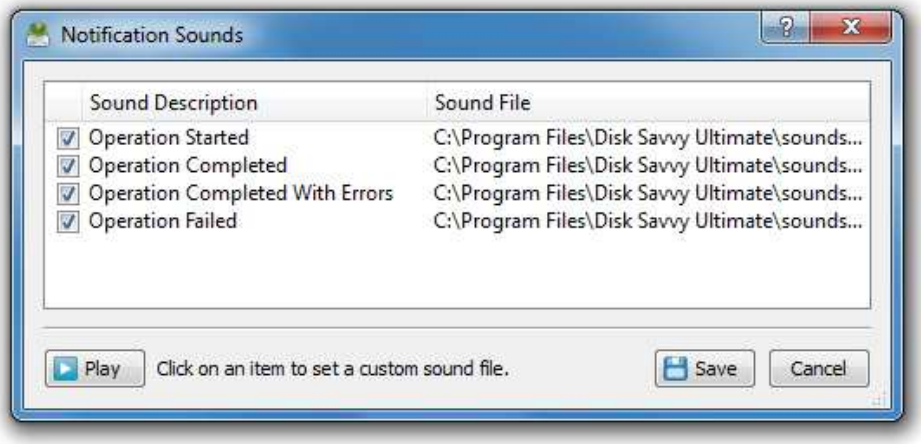


In most cases, the Windows shell extension is a very useful feature, but sometimes, when the user have too many installed shell extensions, the Windows context menu may become too cluttered. In order to remove the DiskSavvy entry from the Windows context menu, open the options dialog, select the 'General' tab and disable the Windows shell extension.

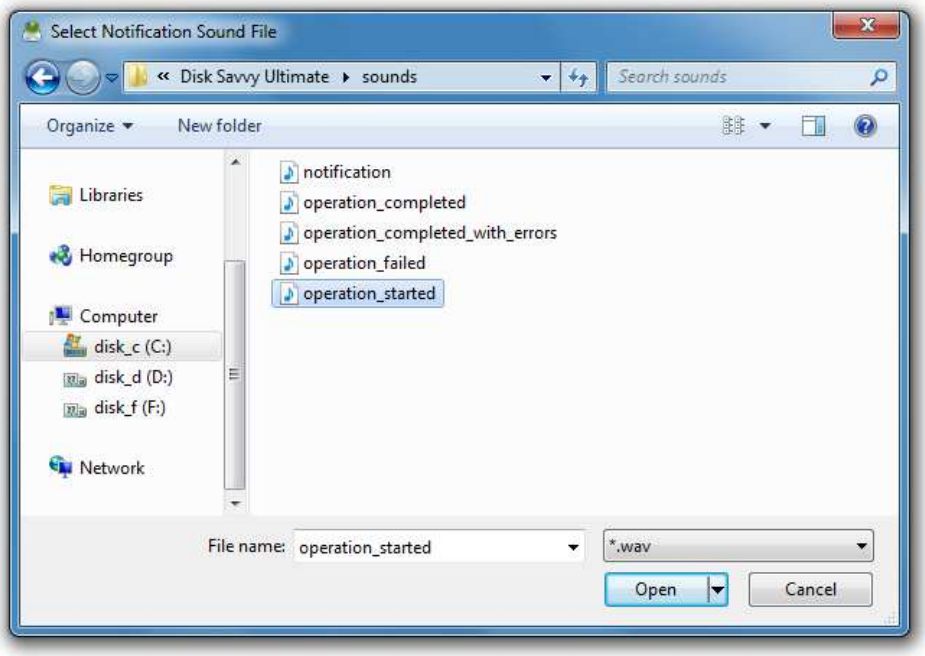


3.23 Sound Notifications

DiskSavvy provides the ability to play notification sounds when a disk space analysis operation is started, completed or failed. In addition, the user is provided with the ability to enable, disable or customize all types of sound notifications.



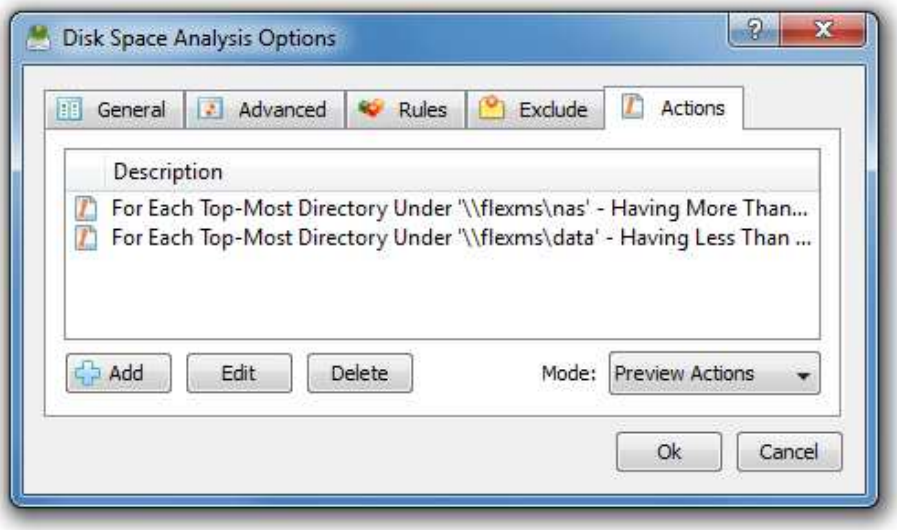
In order to open the 'Notification Sounds' dialog, select the 'Tools - Notification Sounds' menu item. The 'Notifications Sounds' dialog shows all the available sound notifications and allows one to enable or disable specific sound notifications.



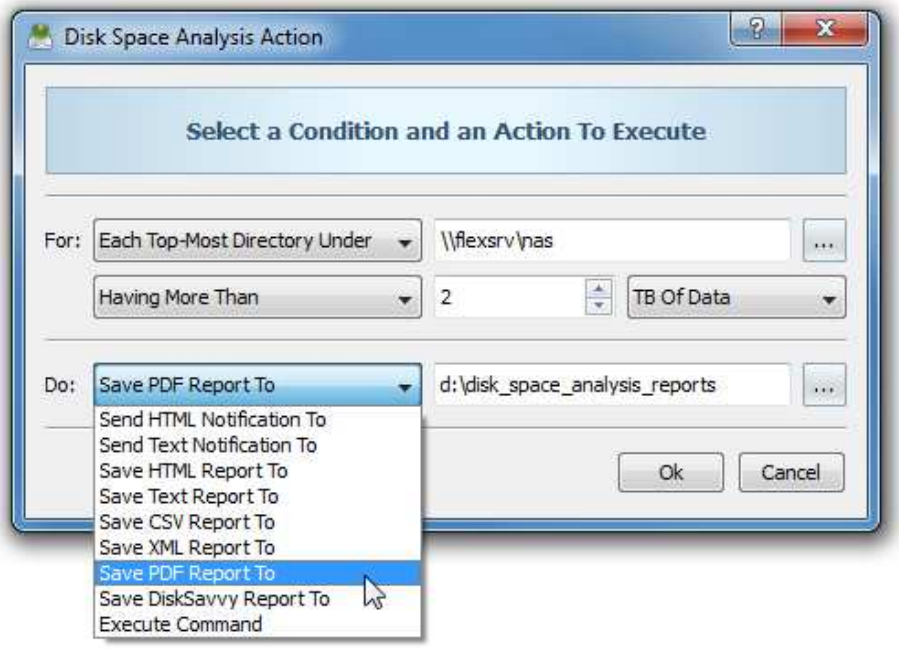
In order to select a custom notification sound file, click on a notification sound item in the sounds list and select a custom WAV file. In order to play a notification sound, select the required notification sound in the sounds list and press the 'Play' button.

3.24 Executing Disk Space Analysis Actions

DiskSavvy Ultimate and DiskSavvy Server provide power computer users and IT professionals with the ability to define multiple conditional disk space analysis actions that should be executed when user-specific conditions are met.

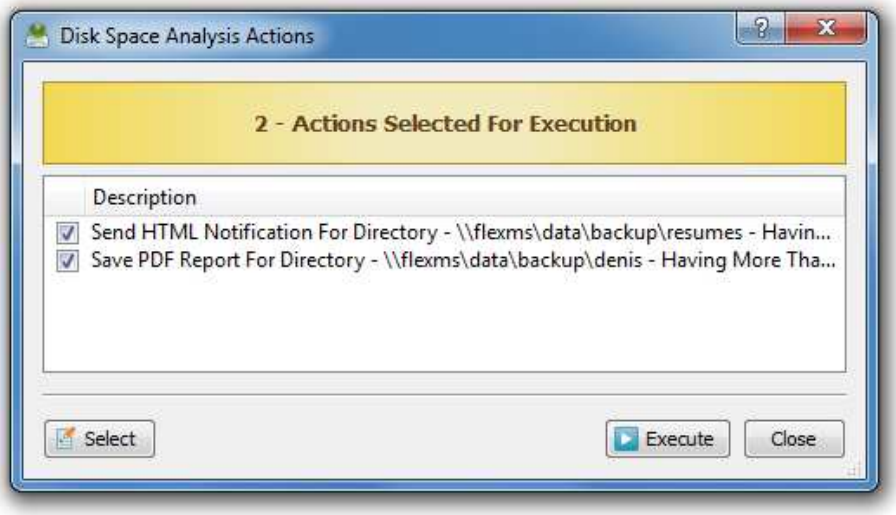


For example, DiskSavvy allows one to send e-mail notifications, save disk space analysis reports and/or execute custom commands when there are too many files, too much space is consumed or the free space is below a specified limit in one or more disks or directories.

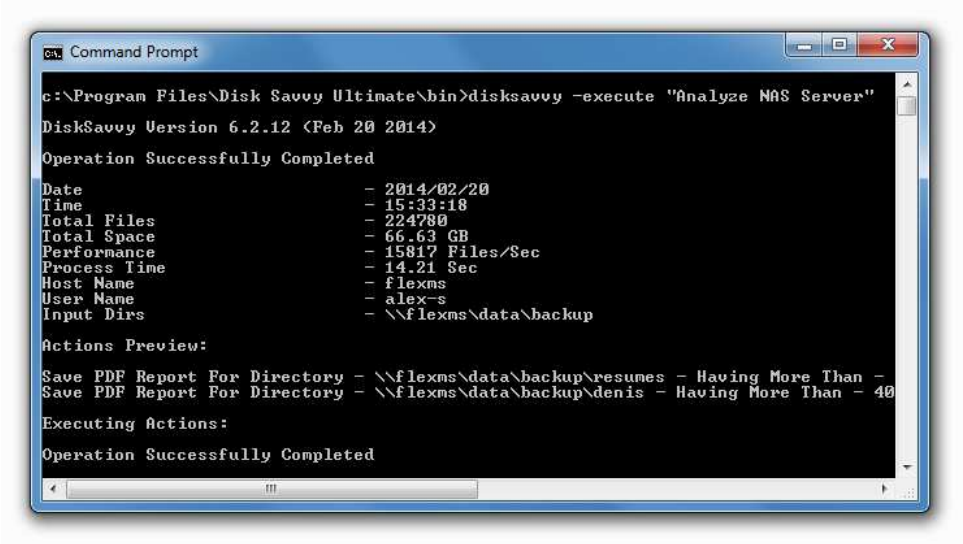


In order to add one or more storage analysis actions, open the profile dialog, select the 'Actions' tab, press the 'Add' button and specify the condition to be met and the action to execute.

After finishing analyzing input disks or directories, DiskSavvy will process all the specified disk space analysis actions and display the 'Actions Preview' dialog. In order to execute one or more actions, select the actions to be executed and press the 'Execute' button.

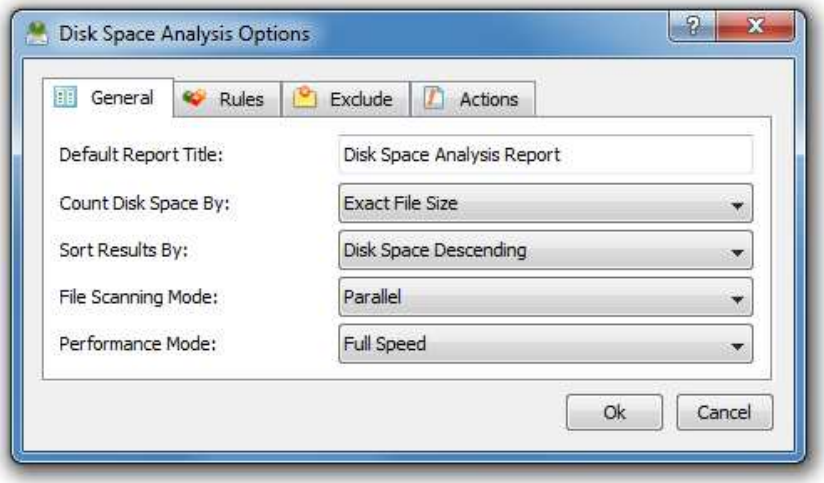

Disk Space Analysis Actions
2 - Actions Selected For Execution
Description
Send HTML Notification For Directory - \\flexms\data\backup\resumes - Havin...
Save PDF Report For Directory - \\flexms\data\backup\denis - Having More Tha...
Select
Execute
Close

In order to execute disk space analysis actions fully automatically, in an unattended mode, change the actions mode from 'Preview' to 'Execute' and use the DiskSavvy command line utility, which will process all the input directories and execute the specified storage analysis actions fully automatically.


Command Prompt
c:\Program Files\Disk Savvy Ultimate\bin>disksavvy -execute "Analyze NAS Server"
DiskSavvy Version 6.2.12 (Feb 20 2014)
Operation Successfully Completed
Date - 2014/02/20
Time - 15:33:18
Total Files - 224780
Total Space - 66.63 GB
Performance - 15817 Files/Sec
Process Time - 14.21 Sec
Host Name - flexms
User Name - alex-s
Input Dirs - \\flexms\data\backup
Actions Preview:
Save PDF Report For Directory - \\flexms\data\backup\resumes - Having More Than -
Save PDF Report For Directory - \\flexms\data\backup\denis - Having More Than - 40
Executing Actions:
Operation Successfully Completed

3.25 Advanced Disk Space Analysis Options

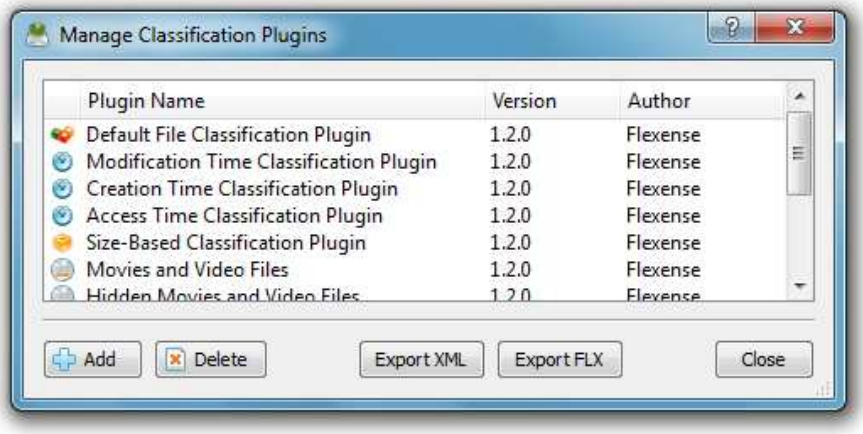
By default, DiskSavvy performs disk space analysis using generic settings, which should be appropriate for most users. In addition, power computer users are provided with a number of configuration options allowing one to customize the disk usage analysis process for user specific needs. In order to customize the disk space usage analysis process, open the disk space analysis profile dialog and press the 'Options' button.



The 'General' tab allows one to control the default report title, the disk space counting mode, the results sorting mode, the disk space analysis performance mode and the file scanning mode. The 'Rules' tab provides the ability to define one or more file matching rules specifying which types or groups of files to analyze. The 'Exclude' tab allows one to exclude one or more directories from the disk space analysis process. The 'Actions' tab provides the ability to define one or more conditional disk space analysis actions to be executed when the number of files or the used disk space in a directory rises above or drops below user-specified limits.

3.26 Managing File Classification Plugins

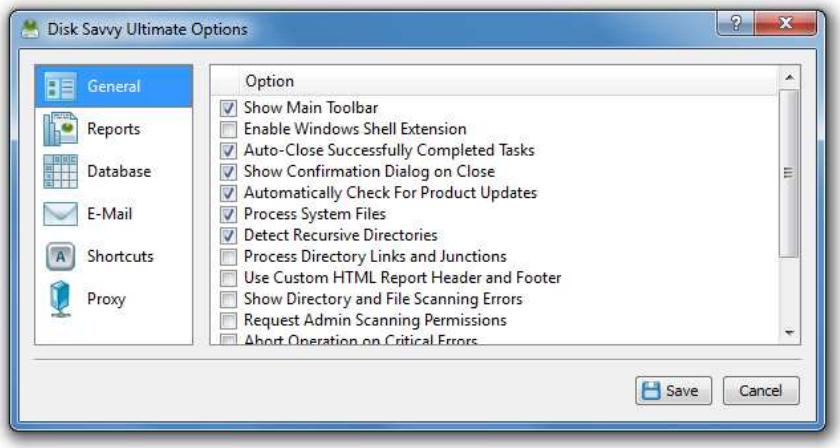
A standard DiskSavvy installation includes the 'Default File Classification Plugin', which is capable of recognizing more than 2500 of the most popular file types and formats and allows one to organize them into a logical file hierarchy. In addition, a number of advanced file classification plug-ins are available for registered users of DiskSavvy Pro and DiskSavvy Ultimate.



Finally, DiskSavvy Ultimate allows one to add custom XML file classification plugins designed according to the DiskSavvy XML format specification. In order add a custom XML plugin, select menu 'Tools - Manage Plugins ...', press the 'Add' button and select the XML plugin file that should be added to the product configuration.

3.27 Configuring DiskSavvy GUI Application

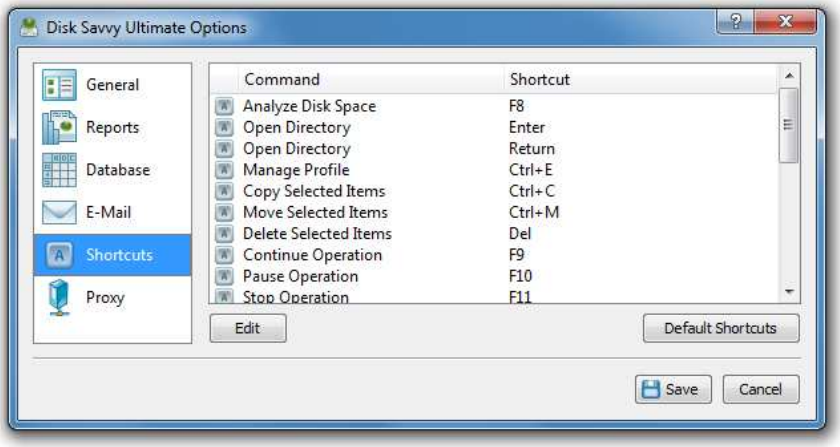
Select the 'Tools - Advanced Options' menu item to open the options dialog.



The '**General**' tab allows one to control the following options:

- Show Main Toolbar - Enables/Disables the main toolbar
- Always Show Profile Dialog Before Start - This option instructs DiskSavvy to show the profile dialog before starting the analysis process.
- Auto-Close Successfully Completed Tasks - select this option to automatically close the process dialog and show analysis results.
- Automatically Check For Product Updates - select this option to instruct DiskSavvy to automatically check for available product updates.
- Show Scanning Access Denied Errors - select this option to see error messages when DiskSavvy is prevented to scan files in a directory
- Process System Files - select this option to analyze system files and directories
- Abort Operation On Critical Errors - by default DiskSavvy is trying to process as many files as possible logging non-fatal errors in a process log. Select this option to instruct DiskSavvy to abort operation when encountering a critical error.

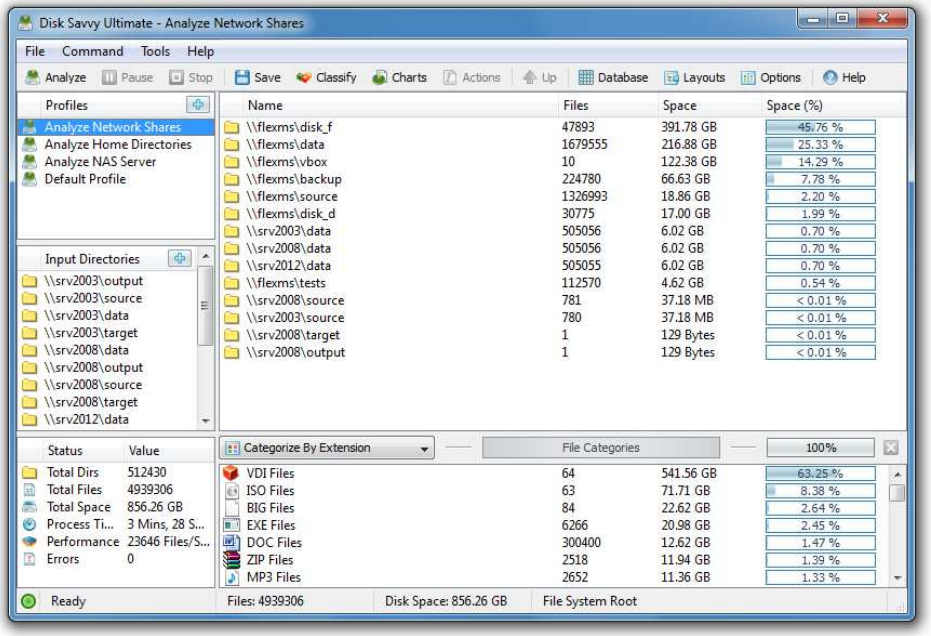
The '**Shortcuts**' tab provides the user with the ability to customize keyboard shortcuts. Click on a shortcut item to edit the currently assigned key sequence. Press the 'Default Shortcuts' button to reset all keyboard shortcuts to default values.



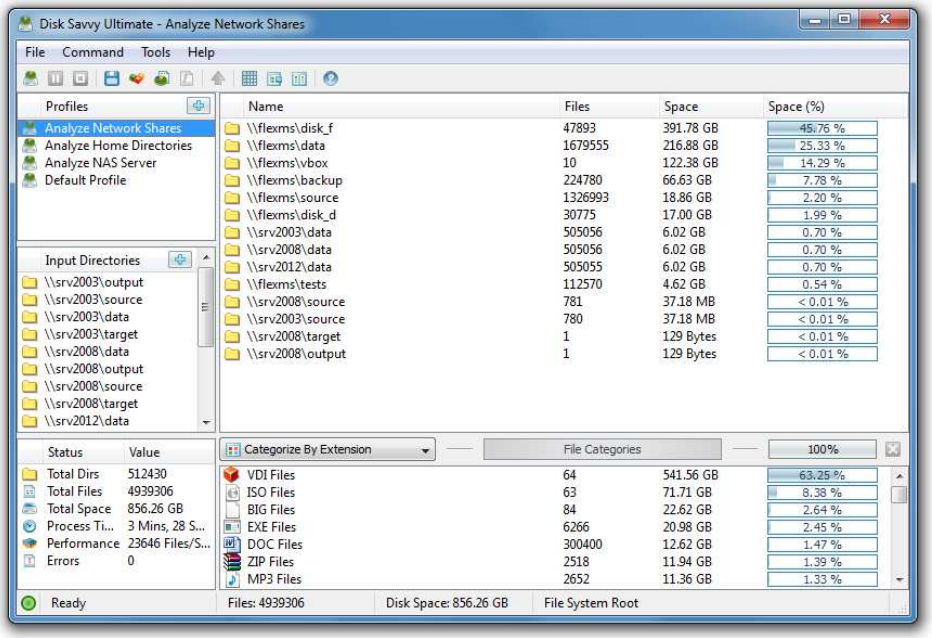
The '**Proxy**' tab provides the user with the ability to configure the HTTP proxy settings. DiskSavvy uses the HTTP protocol in order to inquire whether there is a new product version available on the web site.

3.28 Using DiskSavvy GUI Layouts

In order to improve GUI usability, the DiskSavvy main GUI application provides three user-selectable GUI layouts. Press the 'Layouts' button to switch the GUI application to the next GUI layout.


Disk Savvy Ultimate - Analyze Network Shares
File Command Tools Help
Analyze Pause Stop Save Classify Charts Actions Up Database Layouts Options Help
Profiles
Analyze Network Shares
Analyze Home Directories
Analyze NAS Server
Default Profile
Input Directories
\\srv2003\output
\\srv2003\source
\\srv2003\data
\\srv2003\target
\\srv2008\data
\\srv2008\output
\\srv2008\source
\\srv2008\target
\\srv2012\data
Name Files Space Space (%)
\\flexms\disk_f 47893 391.78 GB 45.76 %
\\flexms\data 1679555 216.88 GB 25.33 %
\\flexms\vbox 10 122.38 GB 14.29 %
\\flexms\backup 224780 66.63 GB 7.78 %
\\flexms\source 1326993 18.86 GB 2.20 %
\\flexms\disk_d 30775 17.00 GB 1.99 %
\\srv2003\data 505056 6.02 GB 0.70 %
\\srv2008\data 505056 6.02 GB 0.70 %
\\srv2012\data 505055 6.02 GB 0.70 %
\\flexms\tests 112570 4.62 GB 0.54 %
\\srv2008\source 781 37.18 MB < 0.01 %
\\srv2003\source 780 37.18 MB < 0.01 %
\\srv2008\target 1 129 Bytes < 0.01 %
\\srv2008\output 1 129 Bytes < 0.01 %
Status Value
Total Dirs 512430
Total Files 4939306
Total Space 856.26 GB
Process Ti... 3 Mins, 28 S...
Performance 23646 Files/S...
Errors 0
Categorize By Extension
File Categories
100%
VDI Files 64 541.56 GB 63.25 %
ISO Files 63 71.71 GB 8.38 %
BIG Files 84 22.62 GB 2.64 %
EXE Files 6266 20.98 GB 2.45 %
DOC Files 300400 12.62 GB 1.47 %
ZIP Files 2518 11.94 GB 1.39 %
MP3 Files 2652 11.36 GB 1.33 %
Ready
Files: 4939306
Disk Space: 856.26 GB
File System Root

The first (default) GUI layout displays large toolbar buttons with descriptive text labels under each button and shows the directories entry and the profiles combo box under the main toolbar. The second GUI layout displays small toolbar buttons with descriptive text labels beside each button and shows the directories entry and the profiles combo box under the main toolbar.


Disk Savvy Ultimate - Analyze Network Shares
File Command Tools Help
Profiles
Analyze Network Shares
Analyze Home Directories
Analyze NAS Server
Default Profile
Input Directories
\\srv2003\output
\\srv2003\source
\\srv2003\data
\\srv2003\target
\\srv2008\data
\\srv2008\output
\\srv2008\source
\\srv2008\target
\\srv2012\data
Name Files Space Space (%)
\\flexms\disk_f 47893 391.78 GB 45.76 %
\\flexms\data 1679555 216.88 GB 25.33 %
\\flexms\vbox 10 122.38 GB 14.29 %
\\flexms\backup 224780 66.63 GB 7.78 %
\\flexms\source 1326993 18.86 GB 2.20 %
\\flexms\disk_d 30775 17.00 GB 1.99 %
\\srv2003\data 505056 6.02 GB 0.70 %
\\srv2008\data 505056 6.02 GB 0.70 %
\\srv2012\data 505055 6.02 GB 0.70 %
\\flexms\tests 112570 4.62 GB 0.54 %
\\srv2008\source 781 37.18 MB < 0.01 %
\\srv2003\source 780 37.18 MB < 0.01 %
\\srv2008\target 1 129 Bytes < 0.01 %
\\srv2008\output 1 129 Bytes < 0.01 %
Status Value
Total Dirs 512430
Total Files 4939306
Total Space 856.26 GB
Process Ti... 3 Mins, 28 S...
Performance 23646 Files/S...
Errors 0
Categorize By Extension
File Categories
100%
VDI Files 64 541.56 GB 63.25 %
ISO Files 63 71.71 GB 8.38 %
BIG Files 84 22.62 GB 2.64 %
EXE Files 6266 20.98 GB 2.45 %
DOC Files 300400 12.62 GB 1.47 %
ZIP Files 2518 11.94 GB 1.39 %
MP3 Files 2652 11.36 GB 1.33 %
Ready
Files: 4939306
Disk Space: 856.26 GB
File System Root

The third GUI layout displays small toolbar buttons without descriptive text labels and shows the directories entry and the profiles combo box as a single toolbar.

3.29 DiskSavvy Command Line Utility

In addition to the GUI application, DiskSavvy Ultimate includes a command line utility allowing one to execute disk space analysis commands from an OS shell window. The DiskSavvy command line utility is located in **<ProductDir>/bin** directory.

Command Line Syntax:

disksavvy -execute <Profile Name>

This command executes the specified disk space analysis command.

disksavvy -analyze -dir <Directory 1> [... Directory X]

This command analyzes disk space usage in the specified directories, disks or network shares.

disksavvy -analyze -server <HostName1;HostName2;HostNameX>

This command analyzes disk space usage in all network shares in the specified servers and/or NAS storage devices. Multiple host names or IP addresses should be separated by the semicolon (;) character.

disksavvy -analyze -network

This command analyzes disk space usage in all network shares in all servers and/or NAS storage devices available on the network.

Parameters:

-dir <Directory>

This parameter specifies an input directory, disk or a network share for the storage analysis command. In order to ensure proper parsing of command line arguments, directories containing space characters should be double quoted.

-server <HostName1;HostName2;HostNameX>

This parameter specifies one or more host names or IP addresses of servers and/or NAS storage devices to analyze. Multiple host names or IP addresses should be separated by the semicolon (;) character.

Options:

-save_html_report [File Name]

This option saves an HTML report to the specified file.

-save_text_report [File Name]

This option saves a text report to the specified file.

-save_csv_report [File Name]

This option saves an Excel CSV report to the specified file.

-save_xml_report [File Name]

This option saves an XML report to the specified file.

-save_pdf_report [File Name]

This option saves a PDF report to the specified file.

-save_report [File Name]

This option saves a native DiskSavvy report to the specified file.

-save_to_database

This option saves a report to an SQL Database using the ODBC interface configured in the DiskSavvy GUI application options dialog.

-title <Report Title>

This option sets a custom report title.

-label <Report Label>

This option sets a custom report label.

-levels <Levels>

This option sets the number of file system hierarchy levels to export (default is 3).

-files_per_dir <Files Per Directory>

This option sets the number of files per directory to export (default is 20).

-compress

This option instructs to export a compressed report.

-perf <FULL | MEDIUM | LOW>

This parameter controls the speed of the storage analysis process.

FULL - Full-speed storage analysis
MEDIUM - Medium-speed storage analysis
LOW - Low-speed storage analysis

-v

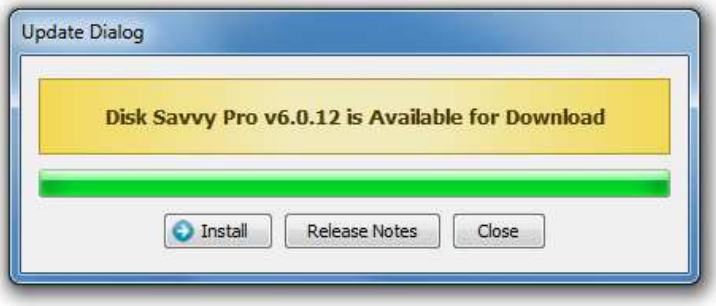
Shows the product major version, minor version, revision and build date.

-help

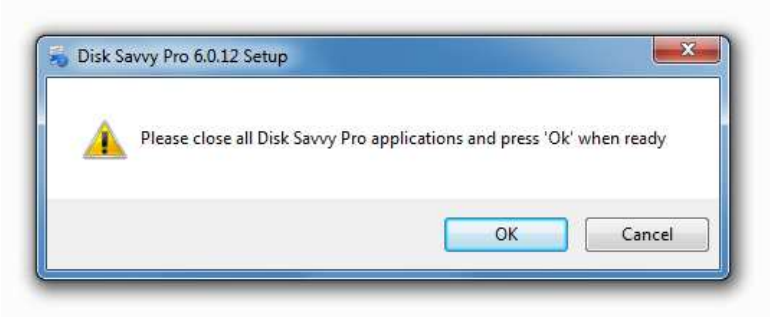
This command shows the command line usage information.

3.30 Product Update Procedure

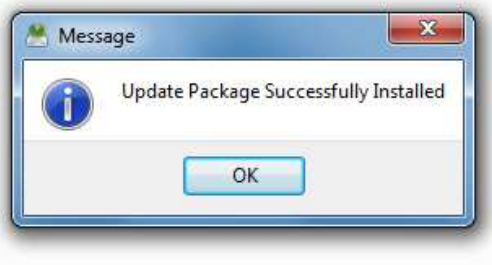
Almost every month, Flexense releases bug fixes and product updates for the DiskSavvy disk space analyzer. These product updates are uploaded to the product web site and may be applied to any installed product version. Each time DiskSavvy is started, the update manager checks if there is a new product version available. If there is a new product update available, the user will see an 'Update' link in the right-most corner of the status bar.



In order to manually verify that the currently installed product version is up-to-date, select menu 'Help - Check For Updates' on the main menu bar. The update manager will connect to the update server and check if there is a newer version of the product available for download. If there is a new product version available, the update dialog will show the version of the new product update and two buttons: the 'Release Notes' button and the 'Install' button. Press the 'Release Notes' button to see more information about what new features and bug fixes are included in this specific product version. Press the 'Install' button to download and install the new product version.



After pressing the 'Install' button, please wait while the update manager will download the new product version to the local disk. The update package will be downloaded to a temporary directory on the system drive and automatically deleted after the update manager will finish updating the product.



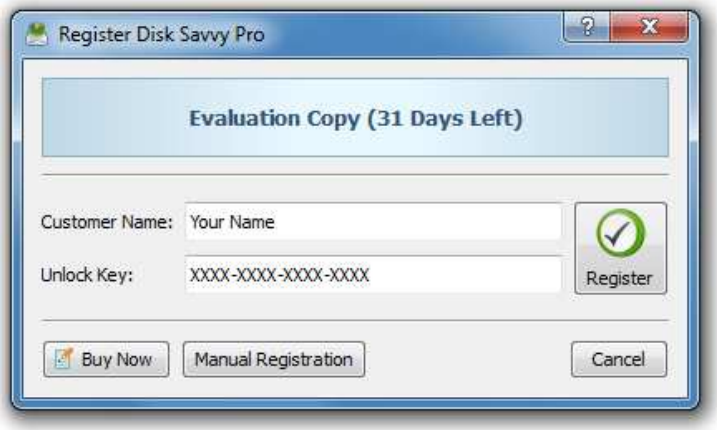
After download is completed, close all open DiskSavvy applications and press the 'Ok' button when ready. If one or more DiskSavvy applications will be open during the update, the operation will fail and the whole update process will need to be restarted from the beginning. After finishing the update process, DiskSavvy will show a message box informing about the successfully completed operation.

3.31 Registering DiskSavvy Pro and DiskSavvy Ultimate

DiskSavvy Pro licenses and discounted license packs may be purchased on the following page:

http://www.disksavvy.com/purchase.html

After finishing the purchase process, wait for the following two e-mail messages: the first one with a receipt for your payment and the second one with an unlock key. If you will not receive your unlock key within 24 hours, please check your spam box for e-mail messages originating from support@flexense.com and if it is not in the spam box, contact our support team.



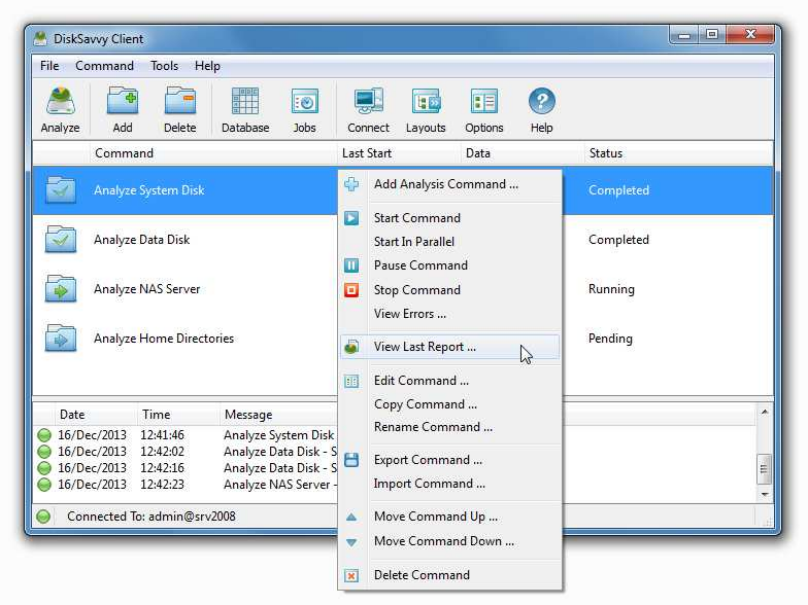
After you will receive your unlock key, start the DiskSavvy GUI application and press the 'Register' button located in the top-right corner of the window. On the register dialog, enter your name (or your company name), the received unlock key and press the 'Register' button to finish the registration procedure.

The online registration procedure requires an active Internet connection and usually takes approximately 1 minute. If the computer is not connected to the Internet, press the 'Manual Registration' button and follow the displayed manual product registration instructions.

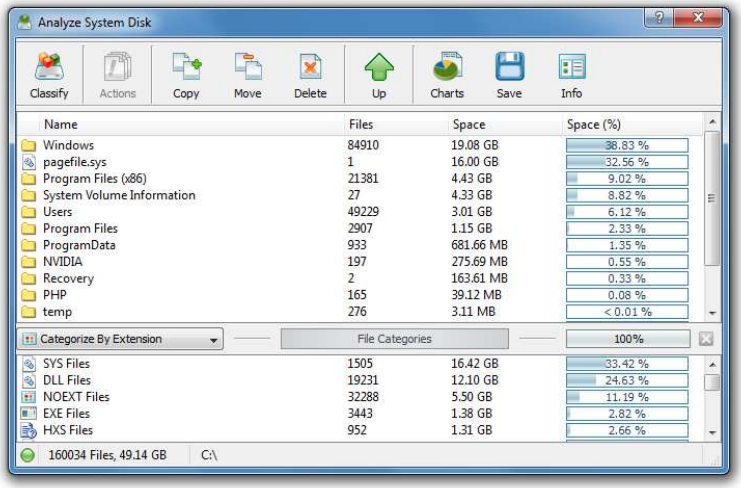
4 Using DiskSavvy Server

4.1 DiskSavvy Server Overview

DiskSavvy Server is a server-based product version, which runs in the background as a service and is capable of performing multiple disk space analysis operations, save disk space analysis reports, generate various types of disk space usage pie charts, schedule periodic disk space analysis operations, submit reports to a centralized SQL database and perform disk space usage history trend analysis operations.



DiskSavvy Server provides a full-scale client GUI application and a command line utility, which can be used to control one or more DiskSavvy Servers locally or through the network. The DiskSavvy client GUI application provides all features available in the desktop product version and additional capabilities allowing one to perform multiple, parallel disk space analysis operations, schedule periodic disk space analysis operations and perform disk space usage history trend analysis operations.


Analyze System Disk
Classify Actions Copy Move Delete Up Charts Save Info
Name Files Space Space (%)
Windows 84910 19.08 GB 38.83 %
pagefile.sys 1 16.00 GB 32.56 %
Program Files (x86) 21381 4.43 GB 9.02 %
System Volume Information 27 4.33 GB 8.82 %
Users 49229 3.01 GB 6.12 %
Program Files 2907 1.15 GB 2.33 %
ProgramData 933 681.66 MB 1.35 %
NVIDIA 197 275.69 MB 0.55 %
Recovery 2 163.61 MB 0.33 %
PHP 165 39.12 MB 0.08 %
temp 276 3.11 MB < 0.01 %
Categorize By Extension
File Categories
100%
SYS Files 1505 16.42 GB 33.42 %
DLL Files 19231 12.10 GB 24.63 %
NOEXT Files 32288 5.50 GB 11.19 %
EXE Files 3443 1.38 GB 2.82 %
HXS Files 952 1.31 GB 2.66 %
160034 Files, 49.14 GB C:\

In addition, DiskSavvy Enterprise provides a complete web-based management interface allowing one to configure, control and manage the product using a regular web browser. The web-based management interface allows one to setup one or more disk space analysis operations, schedule periodic disk space analysis jobs, review disk space analysis results and save reports into a number of standard formats such as HTML, PDF, XML, Excel CSV and text.

4.2 Product Installation Procedure

DiskSavvy Server is especially designed to be as simple as possible. The product does not require any third-party software applications and may be installed and configured within a couple of minutes. A fully functional 30-days trial version of DiskSavvy Server may be downloaded from the following page: http://www.disksavvy.com/downloads.html.

Disk Savvy Server 5.8.12 (64-Bit) Setup
DiskSavvy
DISK SPACE ANALYZER
Welcome to the Disk Savvy Server 5.8.12 (64-Bit) Setup Wizard
This wizard will guide you through the installation of Disk Savvy Server 5.8.12 (64-Bit).
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
© 2007-2013 Flexense Ltd.
Next >
Cancel

The installation package is very small, 5MB - 6MB depending on the target operating system, and the product requires just 20MB of the free disk space on the target server. In order to install DiskSavvy Server, start the setup program, select a destination directory and press the 'Next' button.

Disk Savvy Server 5.8.12 (64-Bit) Setup
DiskSavvy
DISK SPACE ANALYZER
Disk Savvy Server Ports
Disk Savvy Server control and web access ports.
Enter Disk Savvy Server control and Web access ports:
Server Control Port:
9124
Server Web Access Port:
80
Disk Savvy Server may be managed using a Web browser through the web access port or using the command line utility through the control port.
If you need to control the product through the network, make sure these ports are open in the host's firewall.
NSIS v2.46
< Back
Install
Cancel

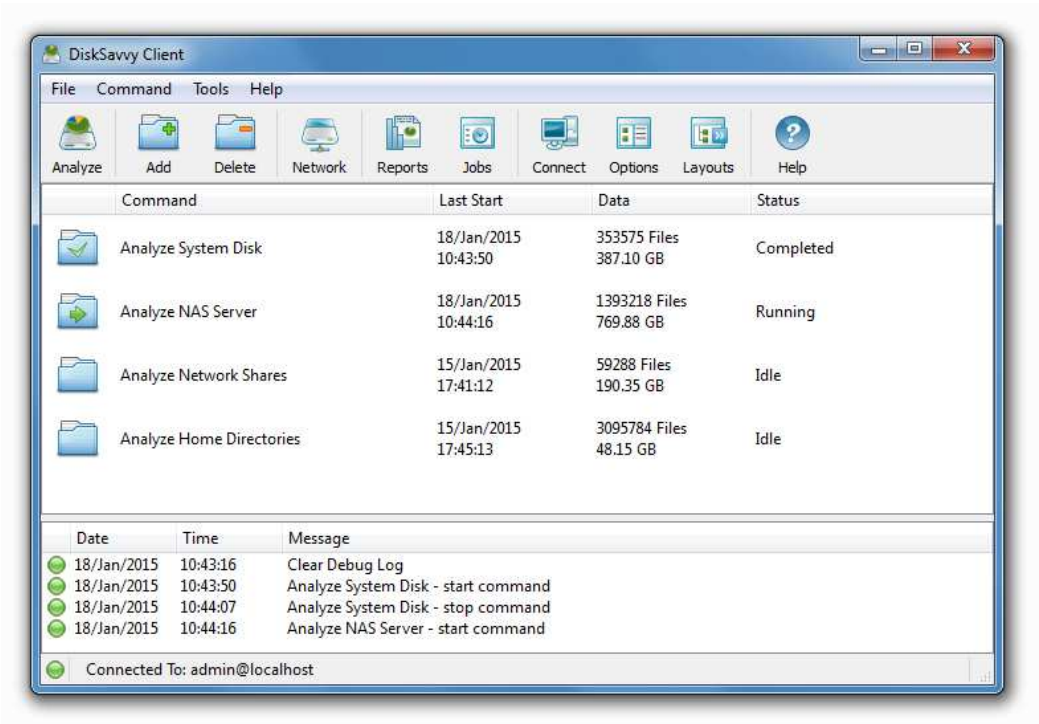
Optionally, enter custom server control and/or web access ports. The server control port is used by the DiskSavvy client GUI application and the command line utility to connect to the DiskSavvy Server. The web access port is the port for the web-based management interface allowing one to control DiskSavvy Enterprise using a standard web browser. If DiskSavvy Server should be controlled remotely through the network, make sure one or both of these ports are open in the server's firewall.

4.3 Using DiskSavvy Client GUI Application

The DiskSavvy client GUI application allows one to connect to the DiskSavvy server locally or through the network, configure disk space analysis operations, schedule periodic disk space analysis operations, review disk space analysis results, generate charts and save various types of reports. Normally, the DiskSavvy client GUI application connects to the DiskSavvy server using the default user name and password (admin/admin), but the user is provided with the ability to change the user name and password on the DiskSavvy Server options dialog.

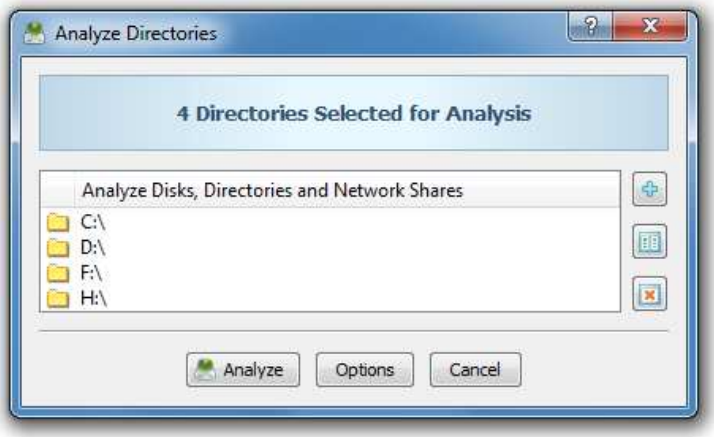
Connect to DiskSavvy Server
Enter the host name (or IP address) and the port number of the server to connect to. Ensure the server is accessible on the network and the selected port number is open in server's firewall.
Host Name: localhost
Port: 9124
User Name: admin
Password: •••••
Connect
Cancel

All communication messages sent between the DiskSavvy client GUI application and the DiskSavvy Server are always encrypted using the AES-256 encryption algorithm and all the transferred information is fully protected from unauthorized access. Once the DiskSavvy client GUI application is connected to the DiskSavvy server, it shows the list of configured disk space analysis commands and provides the ability to start/stop disk space analysis operations, review disk space analysis results and save various types of disk space analysis reports.

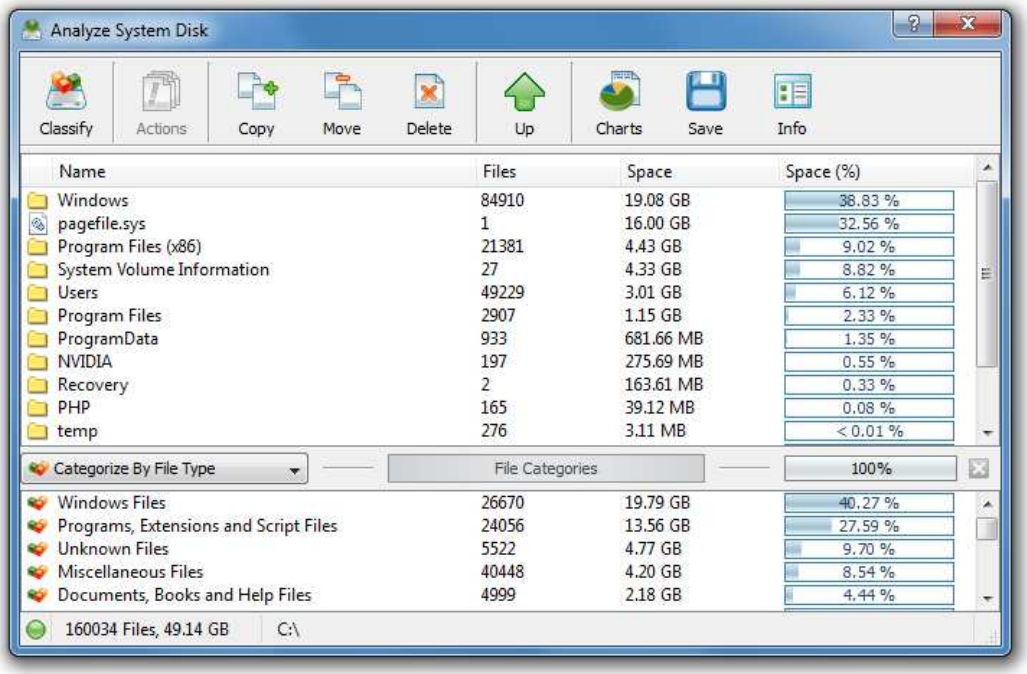

DiskSavvy Client
File Command Tools Help
Analyze Add Delete Network Reports Jobs Connect Options Layouts Help
Command Last Start Data Status
Analyze System Disk 18/Jan/2015 10:43:50 353575 Files 387.10 GB Completed
Analyze NAS Server 18/Jan/2015 10:44:16 1393218 Files 769.88 GB Running
Analyze Network Shares 15/Jan/2015 17:41:12 59288 Files 190.35 GB Idle
Analyze Home Directories 15/Jan/2015 17:45:13 3095784 Files 48.15 GB Idle
Date Time Message
18/Jan/2015 10:43:16 Clear Debug Log
18/Jan/2015 10:43:50 Analyze System Disk - start command
18/Jan/2015 10:44:07 Analyze System Disk - stop command
18/Jan/2015 10:44:16 Analyze NAS Server - start command
Connected To: admin@localhost

In addition, the DiskSavvy client GUI application allows one to scan the network, automatically detect all network servers and NAS storage devices, discover all accessible network shares and analyze disk space usage in hundreds of servers and NAS storage devices on the network.

In order to perform a simple disk space analysis operation using the DiskSavvy client GUI application, press the 'Analyze' button located on the main toolbar, add one or more disks, directories or network shares to analyze and press the 'Analyze' button. For advanced disk space analysis options press the 'Options' button located on the 'Analysis' dialog.

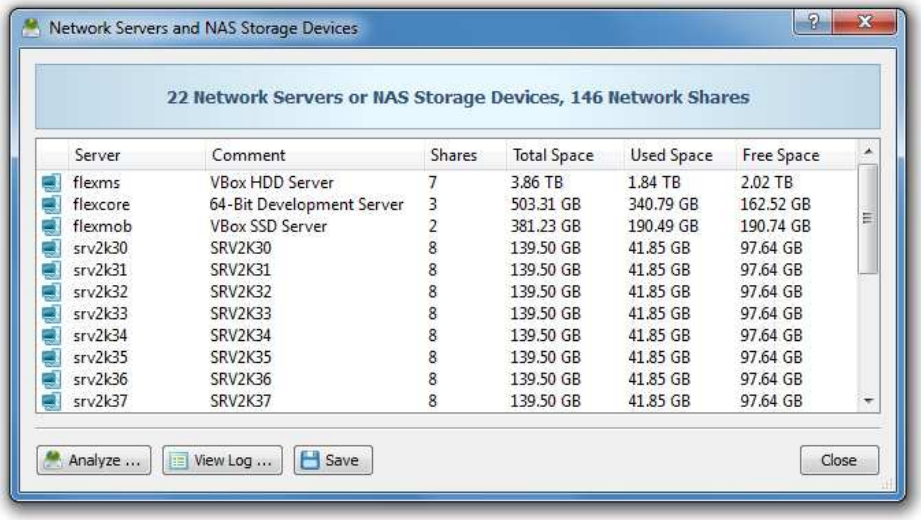


When the disk space analysis process will be completed, DiskSavvy will display the disk space analysis results dialog showing the analyzed disks, directories and network shares sorted by the amount of the used disk space. In addition to the disk space usage results displayed in the top view, the bottom view will show categories of files according to the currently selected file categorization mode.

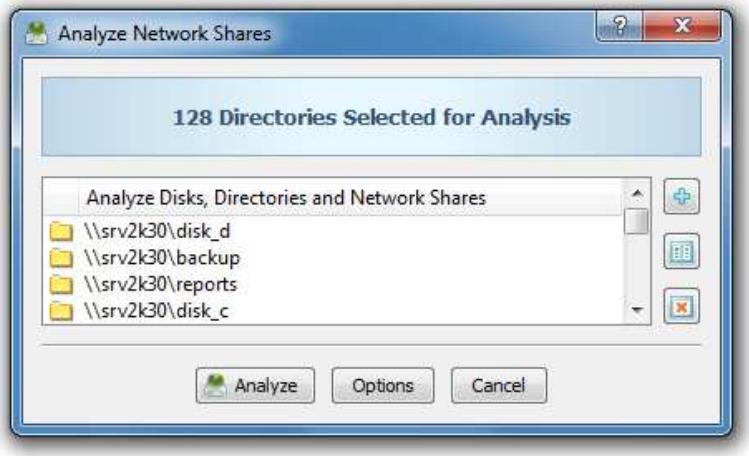

Analyze System Disk
Classify
Actions
Copy
Move
Delete
Up
Charts
Save
Info
Name
Files
Space
Space (%)
Windows 84910 19.08 GB 38.83 %
pagefile.sys 1 16.00 GB 32.56 %
Program Files (x86) 21381 4.43 GB 9.02 %
System Volume Information 27 4.33 GB 8.82 %
Users 49229 3.01 GB 6.12 %
Program Files 2907 1.15 GB 2.33 %
ProgramData 933 681.66 MB 1.35 %
NVIDIA 197 275.69 MB 0.55 %
Recovery 2 163.61 MB 0.33 %
PHP 165 39.12 MB 0.08 %
temp 276 3.11 MB < 0.01 %
Categorize By File Type
File Categories
100%
Windows Files 26670 19.79 GB 40.27 %
Programs, Extensions and Script Files 24056 13.56 GB 27.59 %
Unknown Files 5522 4.77 GB 9.70 %
Miscellaneous Files 40448 4.20 GB 8.54 %
Documents, Books and Help Files 4999 2.18 GB 4.44 %
160034 Files, 49.14 GB
C:\

DiskSavvy is capable of categorizing disk space analysis results by the file type, extension, creation, last modification and last access dates, user name, etc. In order to change file categories displayed in the bottom view, click on the file categories drop box and select an appropriate file categorization mode. In addition, the DiskSavvy client GUI application allows one to filter disk space analysis results by the file category, extension, user name, etc., save various types of disk space usage reports, generate pie charts and perform file management operations on files or categories of files.

In order to simplify analysis of network servers and NAS storage devices, the DiskSavvy client GUI application provides the ability to scan the network, detect servers and NAS storage devices and then analyze all accessible network shares in one or more servers or NAS storage devices. In order to detect network servers and NAS storage devices, press the 'Network' button located on the main toolbar and wait until DiskSavvy will finish scanning the network.


Network Servers and NAS Storage Devices
22 Network Servers or NAS Storage Devices, 146 Network Shares
Server Comment Shares Total Space Used Space Free Space
flexms VBox HDD Server 7 3.86 TB 1.84 TB 2.02 TB
flexcore 64-Bit Development Server 3 503.31 GB 340.79 GB 162.52 GB
flexmob VBox SSD Server 2 381.23 GB 190.49 GB 190.74 GB
srv2k30 SRV2K30 8 139.50 GB 41.85 GB 97.64 GB
srv2k31 SRV2K31 8 139.50 GB 41.85 GB 97.64 GB
srv2k32 SRV2K32 8 139.50 GB 41.85 GB 97.64 GB
srv2k33 SRV2K33 8 139.50 GB 41.85 GB 97.64 GB
srv2k34 SRV2K34 8 139.50 GB 41.85 GB 97.64 GB
srv2k35 SRV2K35 8 139.50 GB 41.85 GB 97.64 GB
srv2k36 SRV2K36 8 139.50 GB 41.85 GB 97.64 GB
srv2k37 SRV2K37 8 139.50 GB 41.85 GB 97.64 GB
Analyze ...
View Log ...
Save
Close

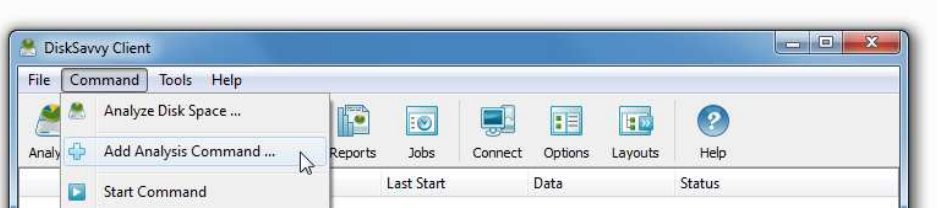
Once the network scanning process is complete, DiskSavvy will show the list of detected servers and NAS storage devices. For each network server or NAS storage device, DiskSavvy will show the server name, the server comment, the number of accessible network shares, the total amount of disk space, the amount of used disk space and the amount of free disk space. In order to see the list of network shares for a network server, click on the server item in the network servers view. In order to analyze one or more servers or NAS storage devices, select the required servers in the network servers view and press the 'Analyze' button.



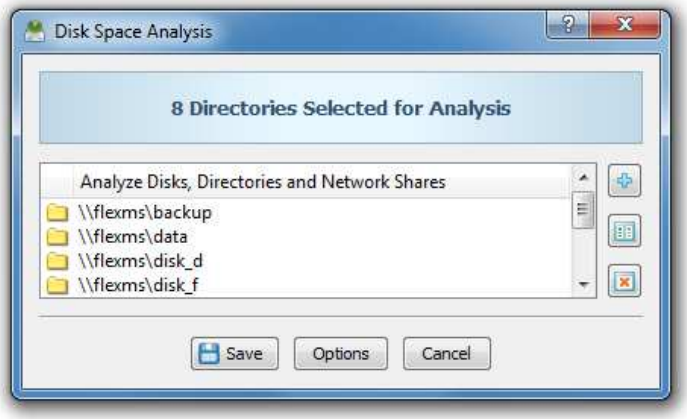
The DiskSavvy client GUI application will automatically create a new disk space analysis command, add all accessible network shares hosted on the selected network servers and NAS storage devices to the list of network shares to be analyzed and start the disk space analysis operation. Once the disk space analysis process will be completed, DiskSavvy will display the disk space analysis results dialog showing disk space usage for all analyzed network shares and allowing one to generate various types of disk space usage charts and save disk space usage reports into a number of standard report formats including: HTML, PDF, XML, Excel CSV and plain text.

4.4 Managing Disk Space Analysis Commands

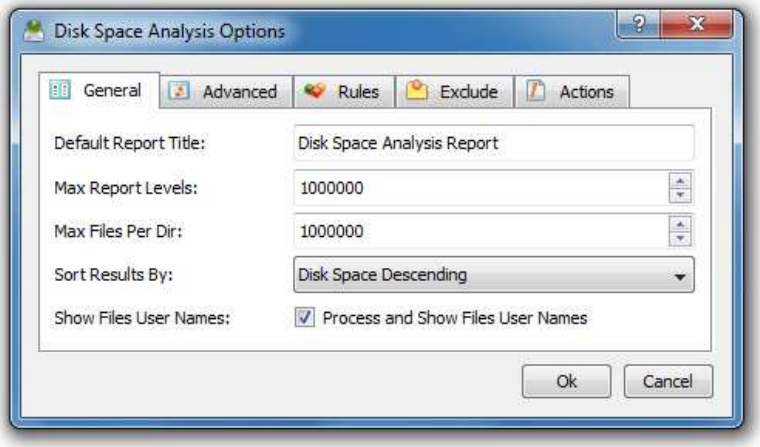
DiskSavvy Server allows one to configure multiple disk space analysis commands with each one capable of processing a number of disks, directories or network shares. In order to add a new disk space analysis command, press the 'Add Command' button located on the DiskSavvy Server home page, specify a unique command name, enter one or more disks, directories or network shares to analyze and press the 'Save' button.



In addition, the user is provided with the ability to exclude one or more directories from the disk space analysis process, add one or more file matching rules specifying which types of files to analyze and/or add one or more disk space analysis actions capable of sending E-Mail notifications or automatically generating reports when one or more directories are matching user-specified rules and conditions.

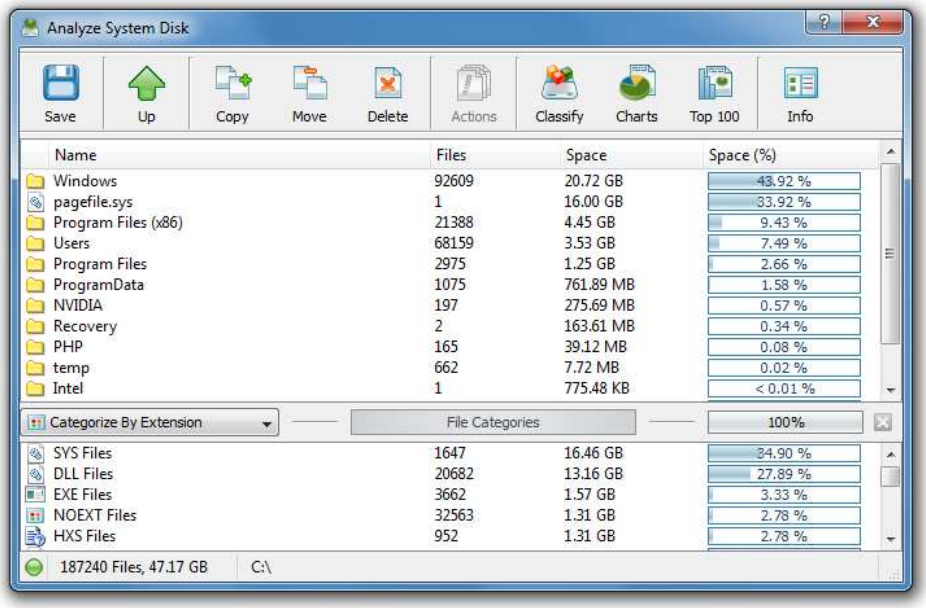


Finally, users are provided with numerous advanced disk space analysis options allowing one to set a custom report title, configure how many history reports to keep for each disk space analysis command, select a disk space analysis performance and directory scanning modes and/or automatically generate HTML, PDF, XML, Excel CSV or text disk space analysis reports in a user-specified directory.

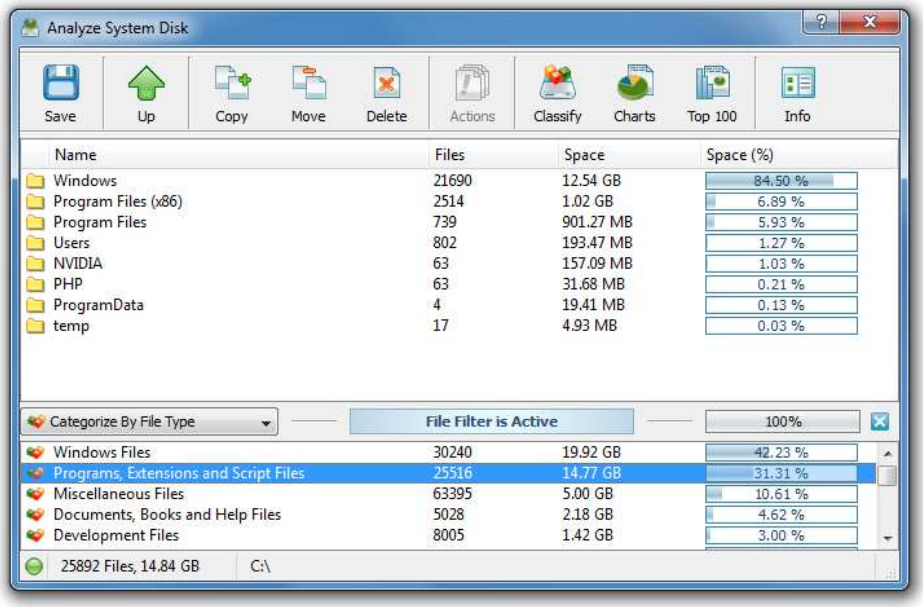


4.5 Disk Space Analysis Results

For each disk space analysis operation, DiskSavvy Server saves an individual disk space analysis report in the built-in reports database. In order to open the last disk space analysis report, just click on the required disk space analysis command item in the commands view.



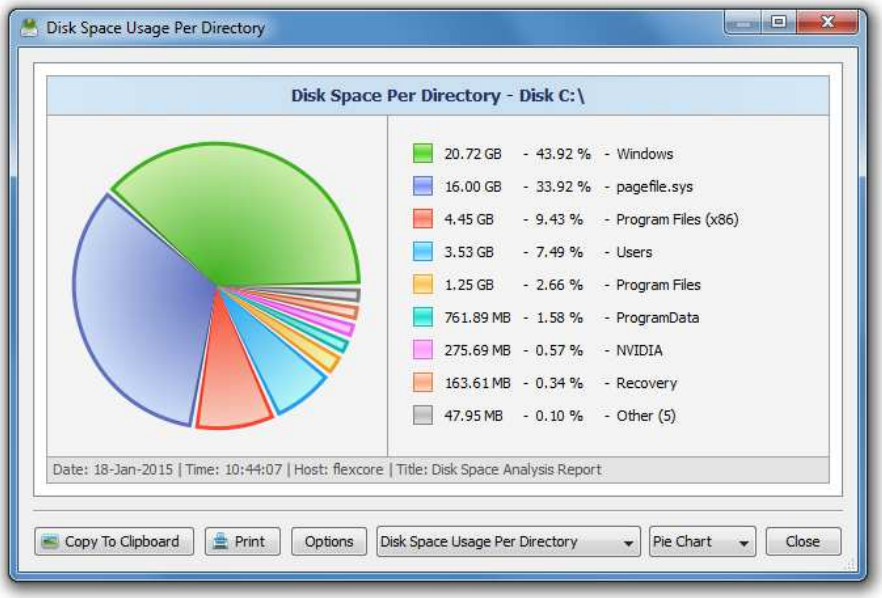
The disk space analysis results dialog shows processed disks, directories and files sorted by the amount of the used disk space. In order to open a subdirectory, just click on the directory item in the results view. In order to go back to the parent directory, press the 'Up' button located on the toolbar.



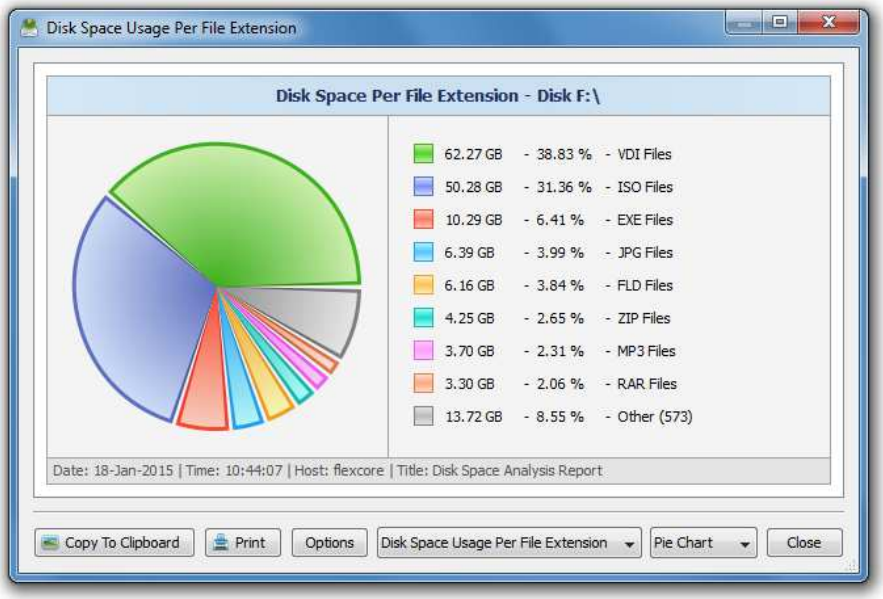
DiskSavvy Server provides the ability to export disk space analysis results to a number of standard formats such as HTML, PDF, XML, Excel CSV and text. In order to export a report file, press the 'Save Report' button and select an appropriate report format.

4.6 Disk Space Analysis Charts

DiskSavvy Server provides multiple types of disk space analysis charts allowing one to display the amount of used disk space per directory, the percent of used disk space per directory, the number of files per directory and the percent of files per directory.


Disk Space Usage Per Directory
Disk Space Per Directory - Disk C:\
20.72 GB - 43.92 % - Windows
16.00 GB - 33.92 % - pagefile.sys
4.45 GB - 9.43 % - Program Files (x86)
3.53 GB - 7.49 % - Users
1.25 GB - 2.66 % - Program Files
761.89 MB - 1.58 % - ProgramData
275.69 MB - 0.57 % - NVIDIA
163.61 MB - 0.34 % - Recovery
47.95 MB - 0.10 % - Other (5)
Date: 18-Jan-2015 | Time: 10:44:07 | Host: flexcore | Title: Disk Space Analysis Report
Copy To Clipboard
Print
Options
Disk Space Usage Per Directory
Pie Chart
Close

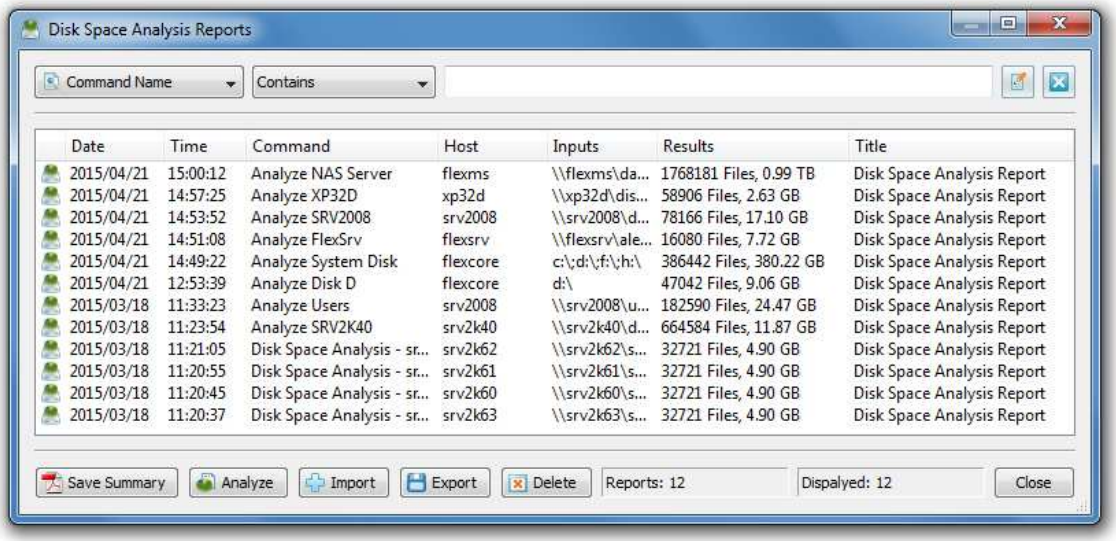
In order to change the currently displayed chart, click on the chart type selector located under the chart and select an appropriate type of the chart. For each disk space analysis report, DiskSavvy Server saves the currently selected chart type and displays the selected chart when the user browses the disk space analysis report.


Disk Space Usage Per File Extension
Disk Space Per File Extension - Disk F:\
62.27 GB - 38.83 % - VDI Files
50.28 GB - 31.36 % - ISO Files
10.29 GB - 6.41 % - EXE Files
6.39 GB - 3.99 % - JPG Files
6.16 GB - 3.84 % - FLD Files
4.25 GB - 2.65 % - ZIP Files
3.70 GB - 2.31 % - MP3 Files
3.30 GB - 2.06 % - RAR Files
13.72 GB - 8.55 % - Other (573)
Date: 18-Jan-2015 | Time: 10:44:07 | Host: flexcore | Title: Disk Space Analysis Report
Copy To Clipboard
Print
Options
Disk Space Usage Per File Extension
Pie Chart
Close

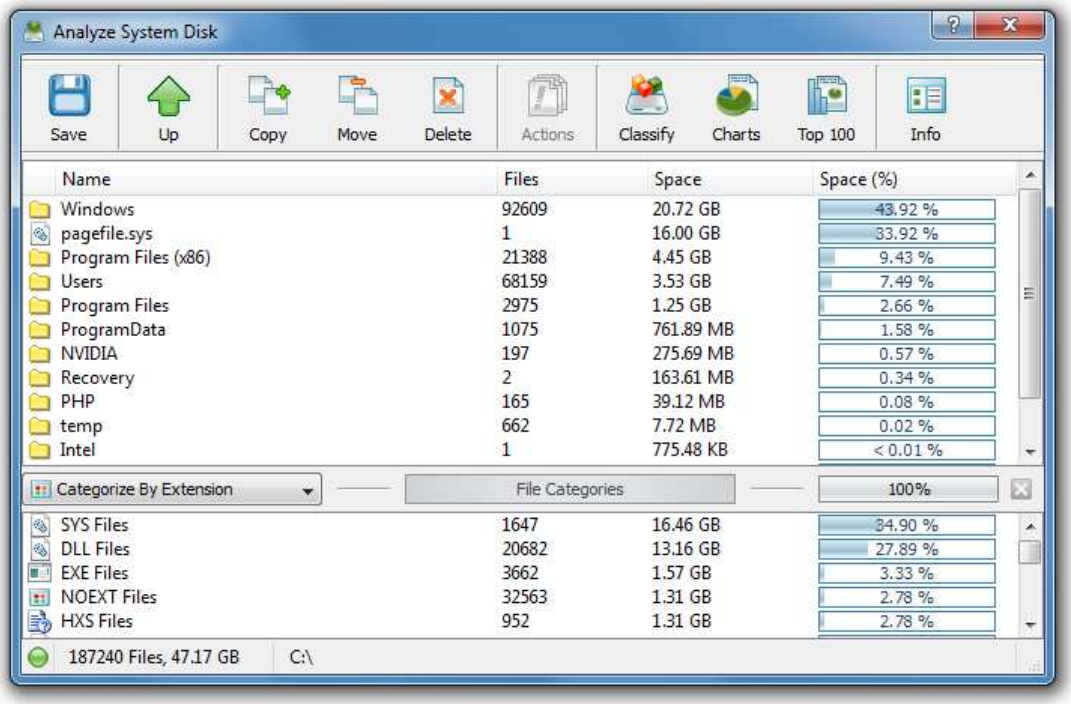
In addition, the charts dialog provides the user with the ability to copy the displayed chart image to the clipboard allowing one to easily integrate DiskSavvy charts into user's documents and presentations. In order to customize the chart's description, press the 'Options' button and specify a custom chart title, host name, date or time.

4.7 Disk Space Analysis Reports

For each disk space analysis operation, DiskSavvy Server saves an individual disk space analysis report in the built-in reports database. In order to open the last report for a disk space analysis command, click on the required disk space analysis command item in the commands view. In order to browse all previously saved disk space analysis reports, press the 'Reports' button located on the main toolbar.

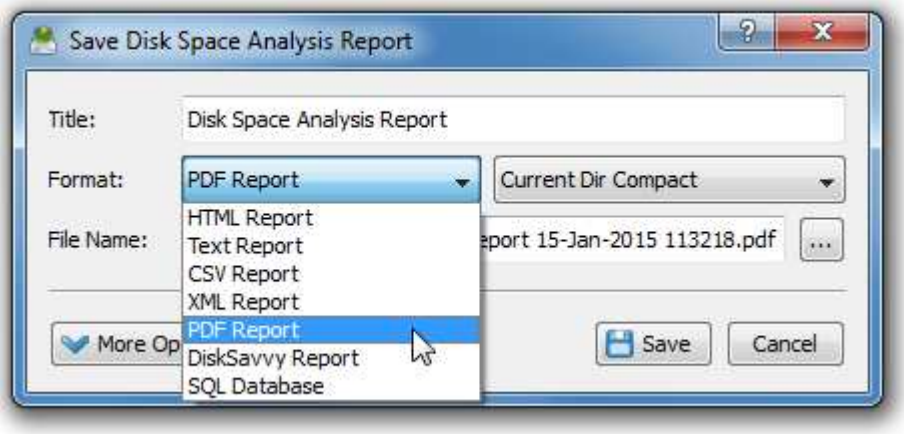

Disk Space Analysis Reports
Command Name
Contains
Date Time Command Host Inputs Results Title
2015/04/21 15:00:12 Analyze NAS Server flexms \\flexms\da... 1768181 Files, 0.99 TB Disk Space Analysis Report
2015/04/21 14:57:25 Analyze XP32D xp32d \\xp32d\dis... 58906 Files, 2.63 GB Disk Space Analysis Report
2015/04/21 14:53:52 Analyze SRV2008 srv2008 \\srv2008\d... 78166 Files, 17.10 GB Disk Space Analysis Report
2015/04/21 14:51:08 Analyze FlexSrv flexsrv \\flexsrv\ale... 16080 Files, 7.72 GB Disk Space Analysis Report
2015/04/21 14:49:22 Analyze System Disk flexcore c:\;d:\;f:\;h:\ 386442 Files, 380.22 GB Disk Space Analysis Report
2015/04/21 12:53:39 Analyze Disk D flexcore d:\ 47042 Files, 9.06 GB Disk Space Analysis Report
2015/03/18 11:33:23 Analyze Users srv2008 \\srv2008\u... 182590 Files, 24.47 GB Disk Space Analysis Report
2015/03/18 11:23:54 Analyze SRV2K40 srv2k40 \\srv2k40\d... 664584 Files, 11.87 GB Disk Space Analysis Report
2015/03/18 11:21:05 Disk Space Analysis - sr... srv2k62 \\srv2k62\s... 32721 Files, 4.90 GB Disk Space Analysis Report
2015/03/18 11:20:55 Disk Space Analysis - sr... srv2k61 \\srv2k61\s... 32721 Files, 4.90 GB Disk Space Analysis Report
2015/03/18 11:20:45 Disk Space Analysis - sr... srv2k60 \\srv2k60\s... 32721 Files, 4.90 GB Disk Space Analysis Report
2015/03/18 11:20:37 Disk Space Analysis - sr... srv2k63 \\srv2k63\s... 32721 Files, 4.90 GB Disk Space Analysis Report
Save Summary
Analyze
Import
Export
Delete
Reports: 12
Dispalyed: 12
Close

DiskSavvy Server allows one to filter disk space analysis reports by the command name, host name, date and input directories. In order to filter disk space analysis reports, select an appropriate filter located on the top side of the reports dialog and then enter a filter value.

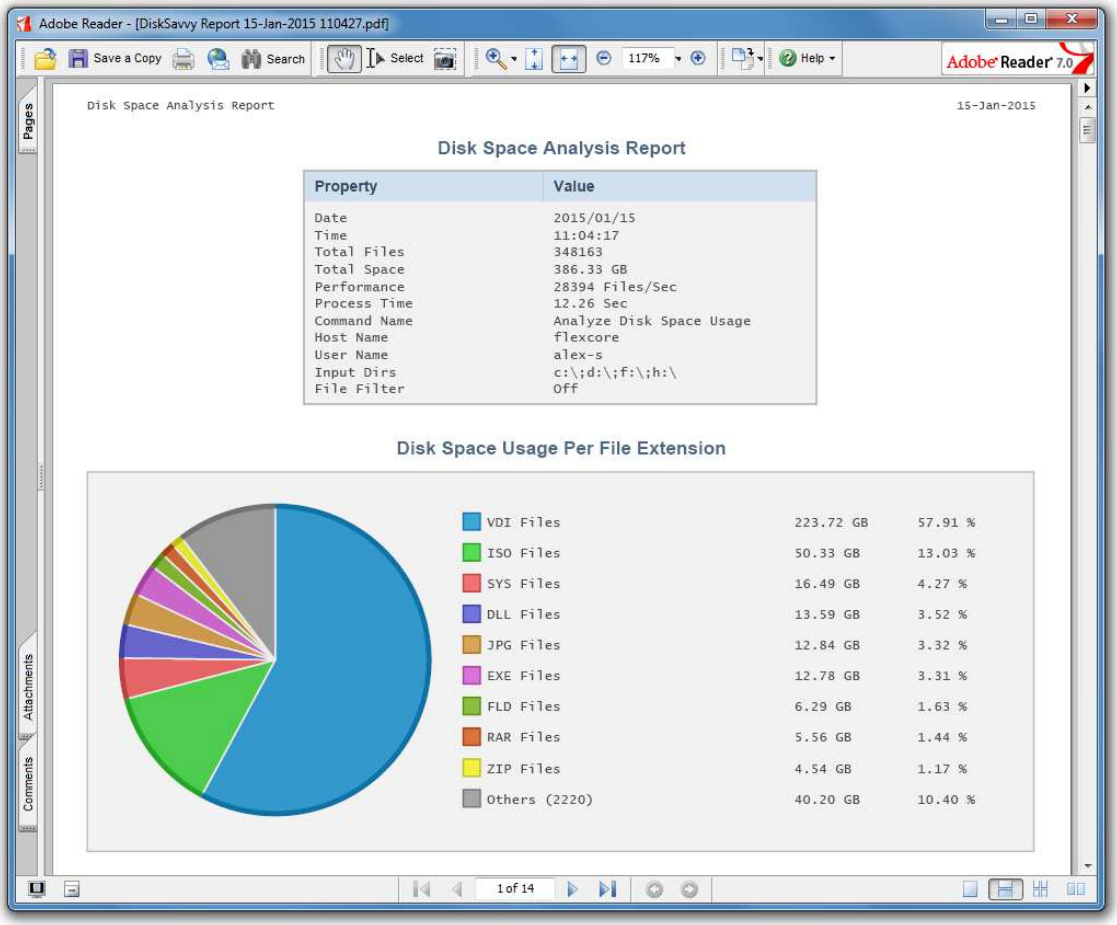

Analyze System Disk
Save
Up
Copy
Move
Delete
Actions
Classify
Charts
Top 100
Info
Name Files Space Space (%)
Windows 92609 20.72 GB 43.92 %
pagefile.sys 1 16.00 GB 33.92 %
Program Files (x86) 21388 4.45 GB 9.43 %
Users 68159 3.53 GB 7.49 %
Program Files 2975 1.25 GB 2.66 %
ProgramData 1075 761.89 MB 1.58 %
NVIDIA 197 275.69 MB 0.57 %
Recovery 2 163.61 MB 0.34 %
PHP 165 39.12 MB 0.08 %
temp 662 7.72 MB 0.02 %
Intel 1 775.48 KB < 0.01 %
Categorize By Extension
File Categories
100%
SYS Files 1647 16.46 GB 34.90 %
DLL Files 20682 13.16 GB 27.89 %
EXE Files 3662 1.57 GB 3.33 %
NOEXT Files 32563 1.31 GB 2.78 %
HXS Files 952 1.31 GB 2.78 %
187240 Files, 47.17 GB
C:\

When a report filter is active, DiskSavvy Server displays the number of filtered reports on the reports dialog and shows reports matching the selected report filter in the reports view. In order to reset the currently selected report filter, press the 'Reset Filter' button located in the top-right corner of the reports dialog.

By default, DiskSavvy Server keeps a history of 100 last reports for each disk space analysis command. Reports are saved in the reports directory, which may be configured on the options dialog 'Reports' tab. In order to open a disk space analysis report, click on the required report item in the reports view.

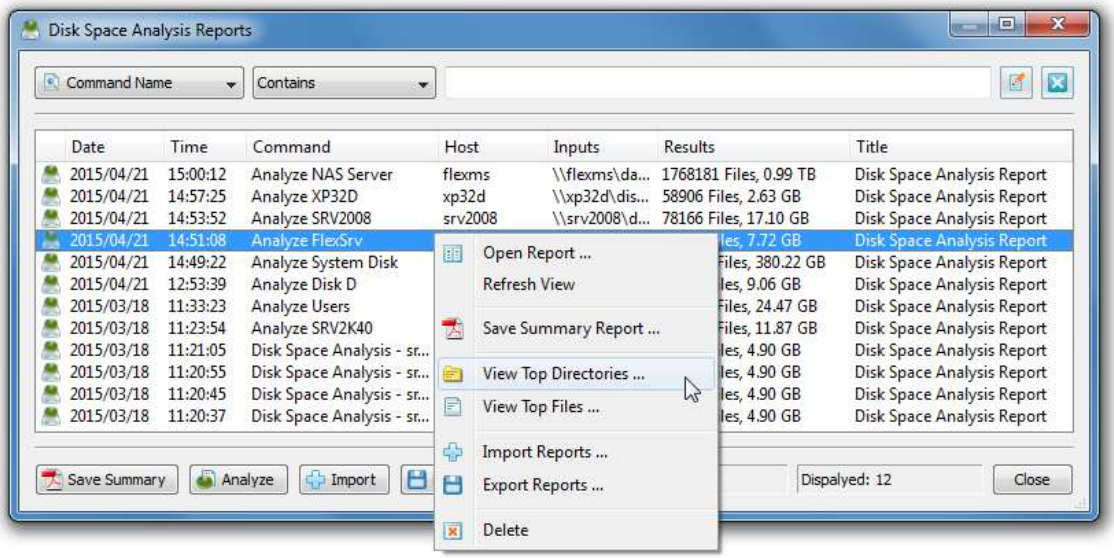


DiskSavvy Server provides the ability to export disk space analysis reports to a number of standard formats such as HTML, PDF, XML, Excel CSV and text. In order to export a report to one of the standard formats, open the disk space analysis results dialog, press the 'Save' button, select an appropriate report format, enter a file name and press the 'Save' button.

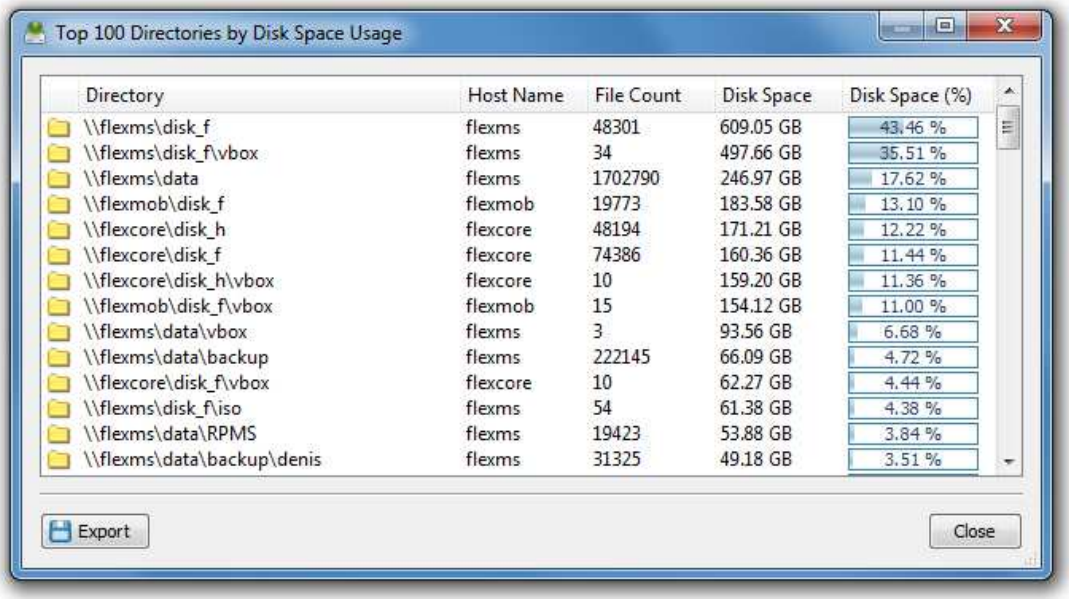


4.8 Viewing Top 100 Directories By Used Disk Space

DiskSavvy Server provides the ability to display a flat list of the top 100 directories sorted by the amount of the used disk space for one or more disk space analysis reports saved in the built-in reports database. This capability allows one to display a consolidated report showing the top 100 directories sorted by the amount of the used disk space for a number of servers or NAS storage devices.


Disk Space Analysis Reports
Command Name
Contains
Date
Time
Command
Host
Inputs
Results
Title
2015/04/21 15:00:12 Analyze NAS Server flexms \\flexms\da... 1768181 Files, 0.99 TB Disk Space Analysis Report
2015/04/21 14:57:25 Analyze XP32D xp32d \\xp32d\dis... 58906 Files, 2.63 GB Disk Space Analysis Report
2015/04/21 14:53:52 Analyze SRV2008 srv2008 \\srv2008\d... 78166 Files, 17.10 GB Disk Space Analysis Report
2015/04/21 14:51:08 Analyze FlexSrv Disk Space Analysis Report
2015/04/21 14:49:22 Analyze System Disk Disk Space Analysis Report
2015/04/21 12:53:39 Analyze Disk D Disk Space Analysis Report
2015/03/18 11:33:23 Analyze Users Disk Space Analysis Report
2015/03/18 11:23:54 Analyze SRV2K40 Disk Space Analysis Report
2015/03/18 11:21:05 Disk Space Analysis - sr... Disk Space Analysis Report
2015/03/18 11:20:55 Disk Space Analysis - sr... Disk Space Analysis Report
2015/03/18 11:20:45 Disk Space Analysis - sr... Disk Space Analysis Report
2015/03/18 11:20:37 Disk Space Analysis - sr... Disk Space Analysis Report
Open Report ...
Refresh View
Save Summary Report ...
View Top Directories ...
View Top Files ...
Import Reports ...
Export Reports ...
Delete
Save Summary
Analyze
Import
Dispalyed: 12
Close

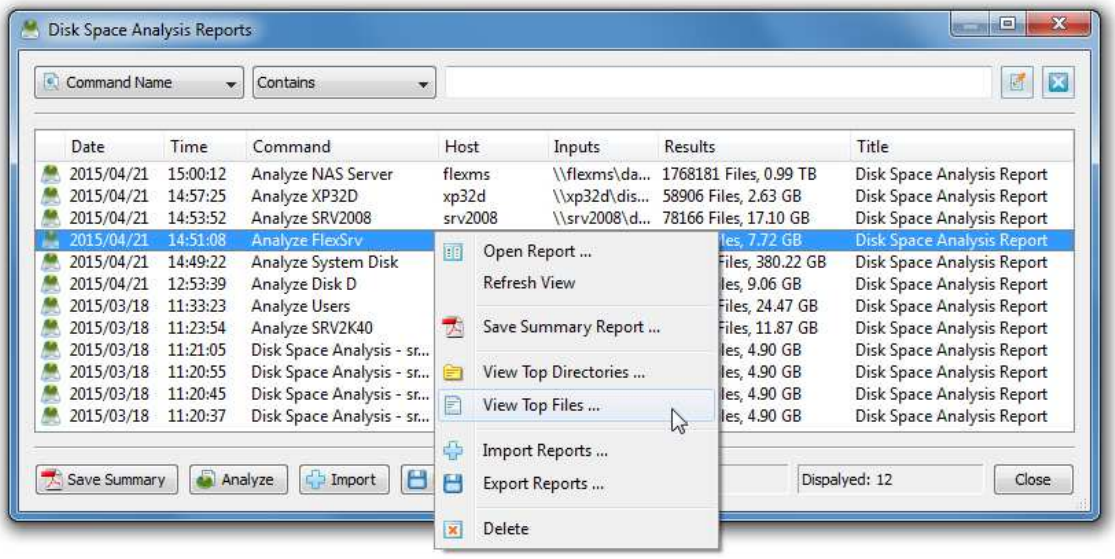
In order to display the top 100 directories, press the 'Reports' button located on the main toolbar, select a number of disk space analysis reports, press the right mouse button and select the 'View Top Directories' menu item. For each directory in the list, the top 100 directories dialog shows the full directory name, the name of the server or NAS storage device the directory is hosted on, the total number of files in the directory and all subdirectories and the total amount of the disk space used by files in the directory and all subdirectories.


Top 100 Directories by Disk Space Usage
Directory
Host Name
File Count
Disk Space
Disk Space (%)
\\flexms\disk_f flexms 48301 609.05 GB 43.46 %
\\flexms\disk_f\vbox flexms 34 497.66 GB 35.51 %
\\flexms\data flexms 1702790 246.97 GB 17.62 %
\\flexmob\disk_f flexmob 19773 183.58 GB 13.10 %
\\flexcore\disk_h flexcore 48194 171.21 GB 12.22 %
\\flexcore\disk_f flexcore 74386 160.36 GB 11.44 %
\\flexcore\disk_h\vbox flexcore 10 159.20 GB 11.36 %
\\flexmob\disk_f\vbox flexmob 15 154.12 GB 11.00 %
\\flexms\data\vbox flexms 3 93.56 GB 6.68 %
\\flexms\data\backup flexms 222145 66.09 GB 4.72 %
\\flexcore\disk_f\vbox flexcore 10 62.27 GB 4.44 %
\\flexms\disk_f\iso flexms 54 61.38 GB 4.38 %
\\flexms\data\RPMS flexms 19423 53.88 GB 3.84 %
\\flexms\data\backup\denis flexms 31325 49.18 GB 3.51 %
Export
Close

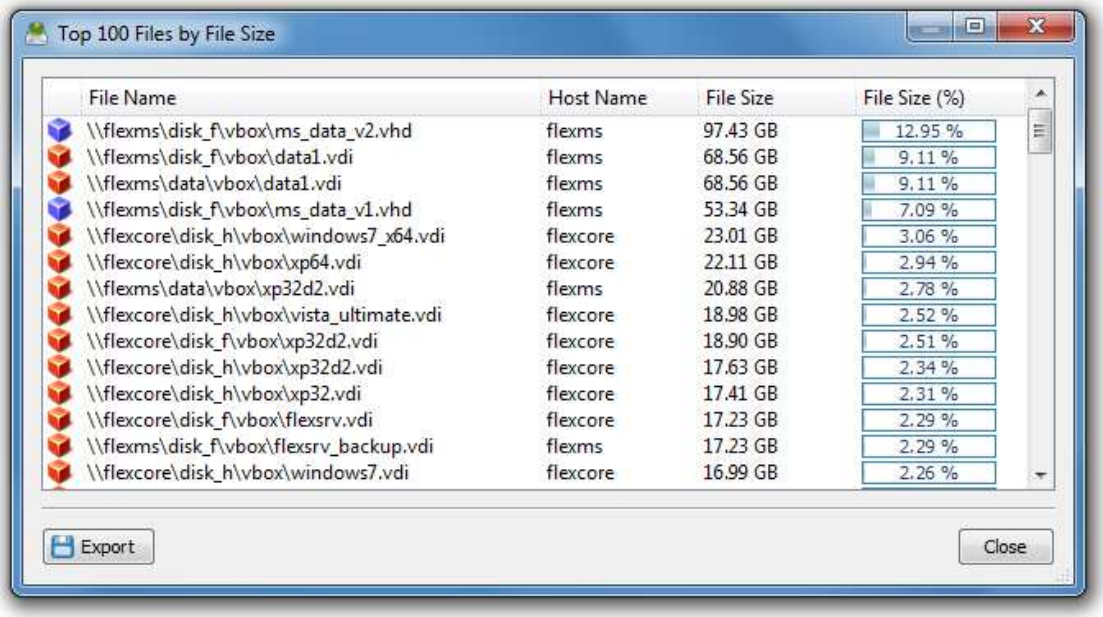
In addition, DiskSavvy Server allows one to save the list of the top 100 directories to a text report file. In order to save the list of the top 100 directories, press the 'Export' button located on the top 100 directories dialog, enter a file name to export the report to and press the 'Save' button.

4.9 Viewing Top 100 Files By File Size

DiskSavvy Server provides the ability to display a list of the top 100 files sorted by the file size for one or more disk space analysis reports saved in the built-in reports database. This capability allows one to display a consolidated report showing the top 100 files sorted by the file size for a number of servers or NAS storage devices.


Disk Space Analysis Reports
Command Name
Contains
Date
Time
Command
Host
Inputs
Results
Title
2015/04/21 15:00:12 Analyze NAS Server flexms \\flexms\da... 1768181 Files, 0.99 TB Disk Space Analysis Report
2015/04/21 14:57:25 Analyze XP32D xp32d \\xp32d\dis... 58906 Files, 2.63 GB Disk Space Analysis Report
2015/04/21 14:53:52 Analyze SRV2008 srv2008 \\srv2008\d... 78166 Files, 17.10 GB Disk Space Analysis Report
2015/04/21 14:51:08 Analyze FlexSrv Disk Space Analysis Report
2015/04/21 14:49:22 Analyze System Disk Disk Space Analysis Report
2015/04/21 12:53:39 Analyze Disk D Disk Space Analysis Report
2015/03/18 11:33:23 Analyze Users Disk Space Analysis Report
2015/03/18 11:23:54 Analyze SRV2K40 Disk Space Analysis Report
2015/03/18 11:21:05 Disk Space Analysis - sr... Disk Space Analysis Report
2015/03/18 11:20:55 Disk Space Analysis - sr... Disk Space Analysis Report
2015/03/18 11:20:45 Disk Space Analysis - sr... Disk Space Analysis Report
2015/03/18 11:20:37 Disk Space Analysis - sr... Disk Space Analysis Report
Open Report ...
Refresh View
Save Summary Report ...
View Top Directories ...
View Top Files ...
Import Reports ...
Export Reports ...
Delete
Save Summary
Analyze
Import
Dispalyed: 12
Close

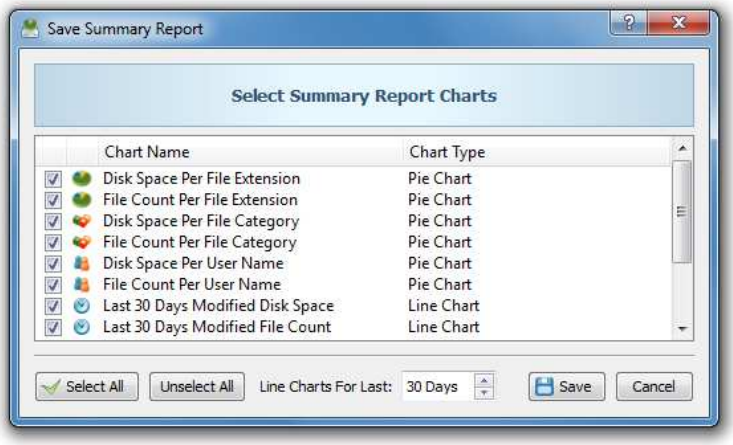
In order to display the top 100 files, press the 'Reports' button located on the main toolbar, select a number of disk space analysis reports, press the right mouse button and select the 'View Top Files' menu item. For each file in the list, the top 100 files dialog shows the full file name, the name of the server or NAS storage device the file is hosted on and the file size.


Top 100 Files by File Size
File Name
Host Name
File Size
File Size (%)
\\flexms\disk_f\vbox\ms_data_v2.vhd flexms 97.43 GB 12.95 %
\\flexms\disk_f\vbox\data1.vdi flexms 68.56 GB 9.11 %
\\flexms\data\vbox\data1.vdi flexms 68.56 GB 9.11 %
\\flexms\disk_f\vbox\ms_data_v1.vhd flexms 53.34 GB 7.09 %
\\flexcore\disk_h\vbox\windows7_x64.vdi flexcore 23.01 GB 3.06 %
\\flexcore\disk_h\vbox\xp64.vdi flexcore 22.11 GB 2.94 %
\\flexms\data\vbox\xp32d2.vdi flexms 20.88 GB 2.78 %
\\flexcore\disk_h\vbox\vista_ultimate.vdi flexcore 18.98 GB 2.52 %
\\flexcore\disk_f\vbox\xp32d2.vdi flexcore 18.90 GB 2.51 %
\\flexcore\disk_h\vbox\xp32d2.vdi flexcore 17.63 GB 2.34 %
\\flexcore\disk_h\vbox\xp32.vdi flexcore 17.41 GB 2.31 %
\\flexcore\disk_f\vbox\flexsrv.vdi flexcore 17.23 GB 2.29 %
\\flexms\disk_f\vbox\flexsrv_backup.vdi flexms 17.23 GB 2.29 %
\\flexcore\disk_h\vbox\windows7.vdi flexcore 16.99 GB 2.26 %
Export
Close

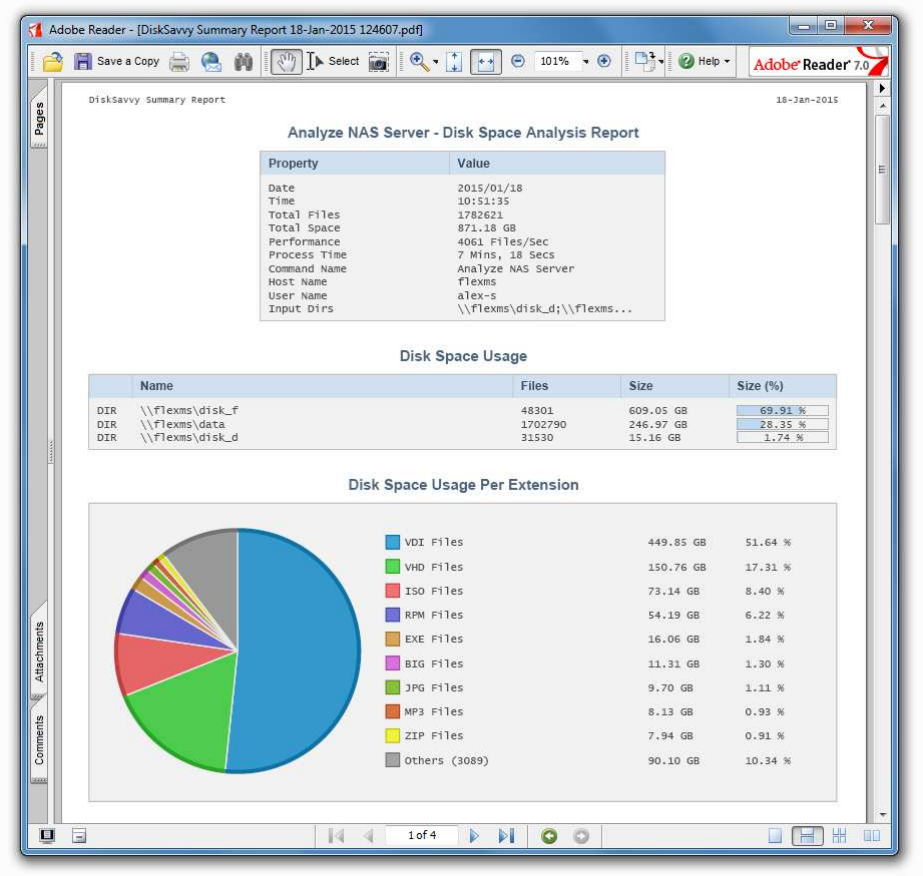
In addition, DiskSavvy Server allows one to save the list of the top 100 files to a text report file. In order to save the list of the top 100 files, press the 'Export' button located on the top 100 files dialog, enter a report file name to export the report to and press the 'Save' button.

4.10 Saving Graphical Summary PDF Reports

In addition to individual disk space analysis reports, DiskSavvy Server provides the ability to save consolidated graphical summary PDF reports for a number of disk space analysis reports saved in the built-in reports database. A graphical summary PDF report includes a short summary and a number of different pie charts and line charts for each disk space analysis report. This capability is especially useful when the user needs to save a consolidated disk space usage report for a number of servers and/or NAS storage devices.

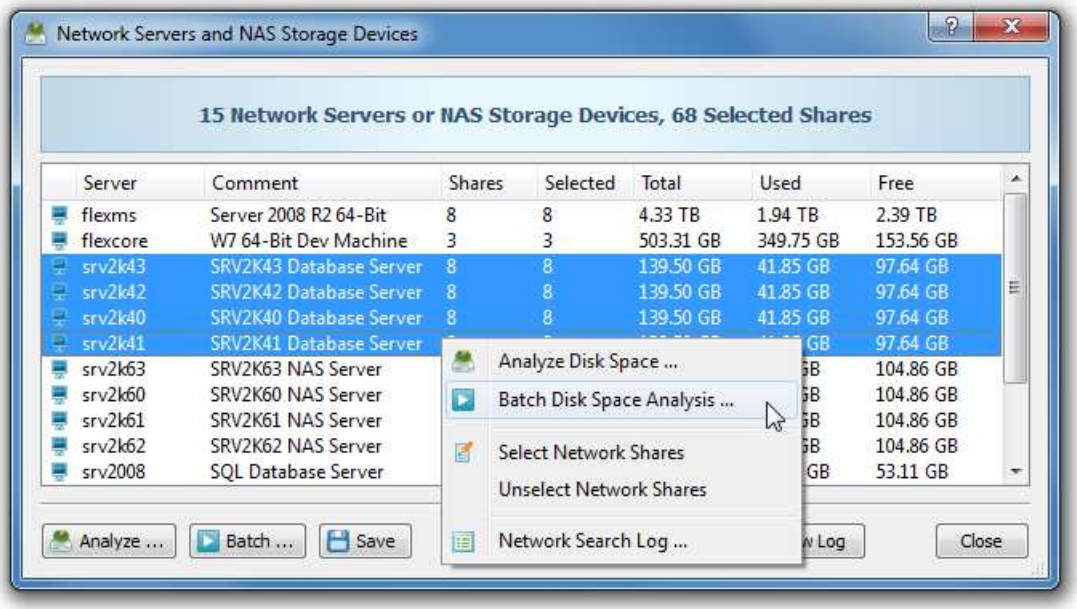


In order to save a graphical summary PDF report, press the 'Reports' button located on the main toolbar, select a number of disk space analysis reports, press the right mouse button and select the 'Save Summary Report' menu item. On the summary report dialog, select all the pie and line charts that should be included in the summary report and press the 'Save' button.

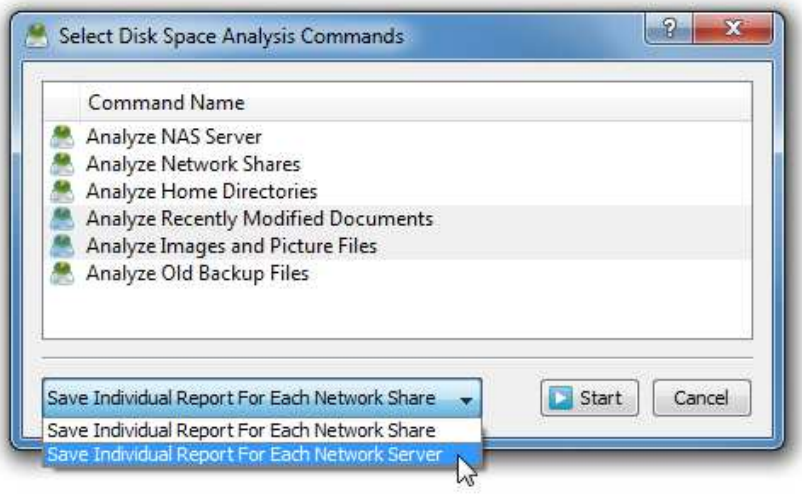

Adobe Reader - [DiskSavvy Summary Report 18-Jan-2015 124607.pdf]
DiskSavvy Summary Report
18-Jan-2015
Analyze NAS Server - Disk Space Analysis Report
Property
Value
Date 2015/01/18
Time 10:51:35
Total Files 1782621
Total Space 871.18 GB
Performance 4061 Files/Sec
Process Time 7 Mins, 18 Secs
Command Name Analyze NAS Server
Host Name flexms
User Name alex-s
Input Dirs \\flexms\disk_d;\\flexms...
Disk Space Usage
Name
Files
Size
Size (%)
DIR \\flexms\disk_f 48301 609.05 GB 69.91 %
DIR \\flexms\data 1702790 246.97 GB 28.35 %
DIR \\flexms\disk_d 31530 15.16 GB 1.74 %
Disk Space Usage Per Extension
VDI Files 449.85 GB 51.64 %
VHD Files 150.76 GB 17.31 %
ISO Files 73.14 GB 8.40 %
RPM Files 54.19 GB 6.22 %
EXE Files 16.06 GB 1.84 %
BIG Files 11.31 GB 1.30 %
JPG Files 9.70 GB 1.11 %
MP3 Files 8.13 GB 0.93 %
ZIP Files 7.94 GB 0.91 %
Others (3089) 90.10 GB 10.34 %
1 of 4

4.11 Batch Disk Space Analysis Operations

DiskSavvy Server and DiskSavvy Enterprise provide the ability to search the network, detect all network servers and NAS storage devices available on the network, execute one or more pre-configured disk space analysis commands on hundreds of network servers and NAS storage devices and generate an individual report for each analyzed server, NAS storage device or network share.



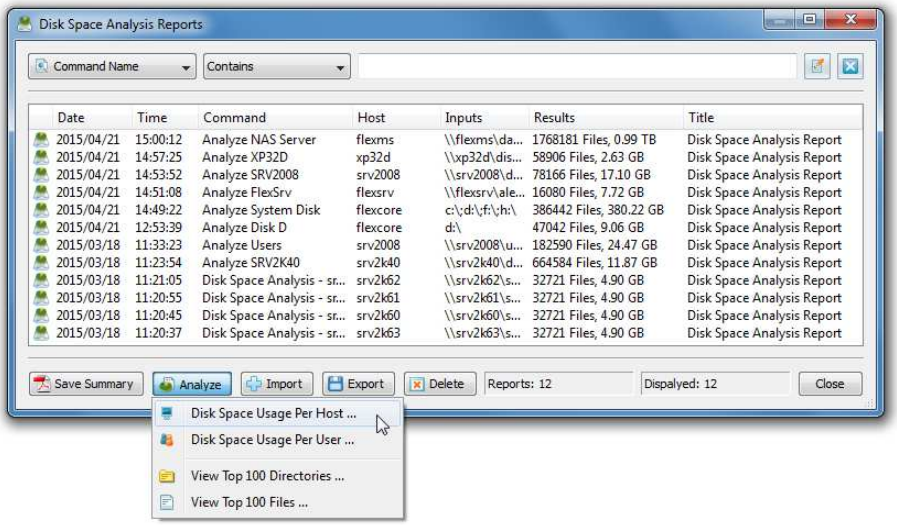
In the simplest case, open the DiskSavvy client GUI application, press the 'Network' button located on the main toolbar, search all network servers and NAS storage devices on the network, select one or more servers to be analyzed, press the right mouse button and select the 'Batch Disk Space Analysis' menu item. DiskSavvy will show a list of pre-configured disk space analysis commands allowing one to select one or more commands to be executed on all selected network servers and NAS storage devices.


Select Disk Space Analysis Commands
Command Name
Analyze NAS Server
Analyze Network Shares
Analyze Home Directories
Analyze Recently Modified Documents
Analyze Images and Picture Files
Analyze Old Backup Files
Save Individual Report For Each Network Share
Start
Cancel
Save Individual Report For Each Network Share
Save Individual Report For Each Network Server

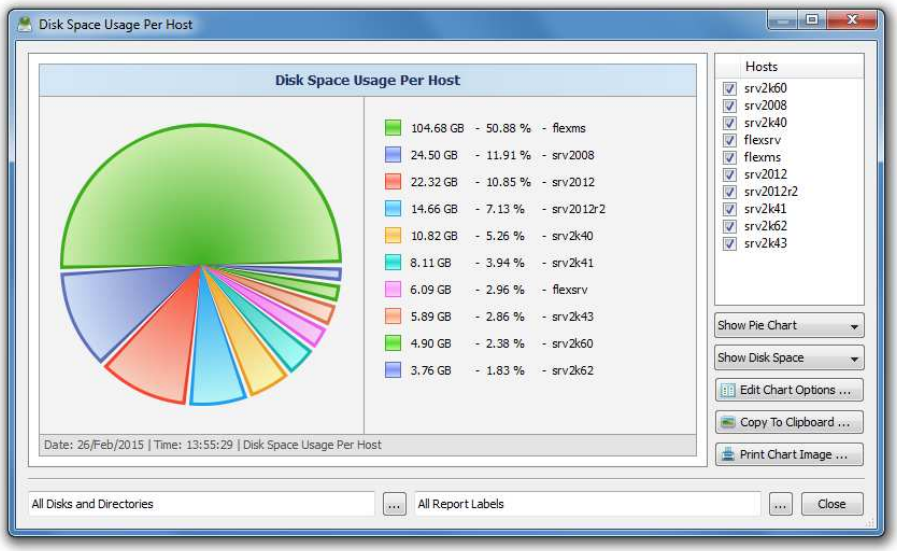
Depending on the selected batch analysis mode, DiskSavvy Server will save in the built-in reports database an individual disk space analysis report for each analyzed network server, NAS storage device or network share. Once the batch disk space analysis operation is completed, the user will be provided with the ability to open saved disk space analysis reports, review disk space analysis results, generate various types of pie charts and export reports to a number of standard formats including HTML, PDF, text, Excel CSV and XML.

4.12 Analyzing Disk Space Usage Per Host

DiskSavvy Server and DiskSavvy Enterprise provide the ability to show the amount of the used disk space and the number of files per host allowing one to gain an in-depth visibility into the disk space usage statistics across the entire enterprise. In order to perform the hosts analysis, analyze disk space usage in a number of servers or NAS storage devices, press the 'Reports' button located on the main toolbar, press the 'Analyze' button and select the 'Disk Space Usage Per Host' menu item.


Disk Space Analysis Reports
Command Name
Contains
Date Time Command Host Inputs Results Title
2015/04/21 15:00:12 Analyze NAS Server flexms \\flexms\da... 1768181 Files, 0.99 TB Disk Space Analysis Report
2015/04/21 14:57:25 Analyze XP32D xp32d \\xp32d\dis... 58906 Files, 2.63 GB Disk Space Analysis Report
2015/04/21 14:53:52 Analyze SRV2008 srv2008 \\srv2008\d... 78166 Files, 17.10 GB Disk Space Analysis Report
2015/04/21 14:51:08 Analyze FlexSrv flexsrv \\flexsrv\ale... 16080 Files, 7.72 GB Disk Space Analysis Report
2015/04/21 14:49:22 Analyze System Disk flexcore c:\;d:\;f:\;h:\ 386442 Files, 380.22 GB Disk Space Analysis Report
2015/04/21 12:53:39 Analyze Disk D flexcore d:\ 47042 Files, 9.06 GB Disk Space Analysis Report
2015/03/18 11:33:23 Analyze Users srv2008 \\srv2008\u... 182590 Files, 24.47 GB Disk Space Analysis Report
2015/03/18 11:23:54 Analyze SRV2K40 srv2k40 \\srv2k40\d... 664584 Files, 11.87 GB Disk Space Analysis Report
2015/03/18 11:21:05 Disk Space Analysis - sr... srv2k62 \\srv2k62\s... 32721 Files, 4.90 GB Disk Space Analysis Report
2015/03/18 11:20:55 Disk Space Analysis - sr... srv2k61 \\srv2k61\s... 32721 Files, 4.90 GB Disk Space Analysis Report
2015/03/18 11:20:45 Disk Space Analysis - sr... srv2k60 \\srv2k60\s... 32721 Files, 4.90 GB Disk Space Analysis Report
2015/03/18 11:20:37 Disk Space Analysis - sr... srv2k63 \\srv2k63\s... 32721 Files, 4.90 GB Disk Space Analysis Report
Save Summary
Analyze
Import
Export
Delete
Reports: 12
Dispalyed: 12
Close
Disk Space Usage Per Host ...
Disk Space Usage Per User ...
View Top 100 Directories ...
View Top 100 Files ...

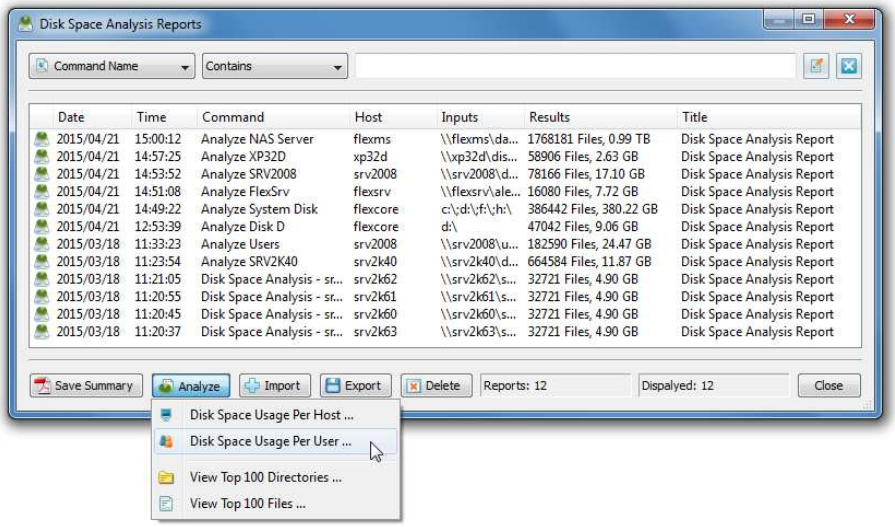
In order to be able perform the hosts analysis, the user needs to configure disk space analysis commands to analyze one or more servers and/or NAS storage devices through the network using UNC network names. In the simplest case, configure a single disk space analysis command, press the 'Network' button located on the main toolbar to search all servers and NAS devices on the network, select one or more servers to analyze, press the 'Batch' button and select the previously configured disk space analysis command to be executed on all selected servers and NAS storage devices.


Disk Space Usage Per Host
Disk Space Usage Per Host
104.68 GB - 50.88 % - flexms
24.50 GB - 11.91 % - srv2008
22.32 GB - 10.85 % - srv2012
14.66 GB - 7.13 % - srv2012r2
10.82 GB - 5.26 % - srv2k40
8.11 GB - 3.94 % - srv2k41
6.09 GB - 2.96 % - flexsrv
5.89 GB - 2.86 % - srv2k43
4.90 GB - 2.38 % - srv2k60
3.76 GB - 1.83 % - srv2k62
Date: 26/Feb/2015 | Time: 13:55:29 | Disk Space Usage Per Host
Hosts
srv2k60
srv2008
srv2k40
flexsrv
flexms
srv2012
srv2012r2
srv2k41
srv2k62
srv2k43
Show Pie Chart
Show Disk Space
Edit Chart Options ...
Copy To Clipboard ...
Print Chart Image ...
All Disks and Directories
All Report Labels
Close

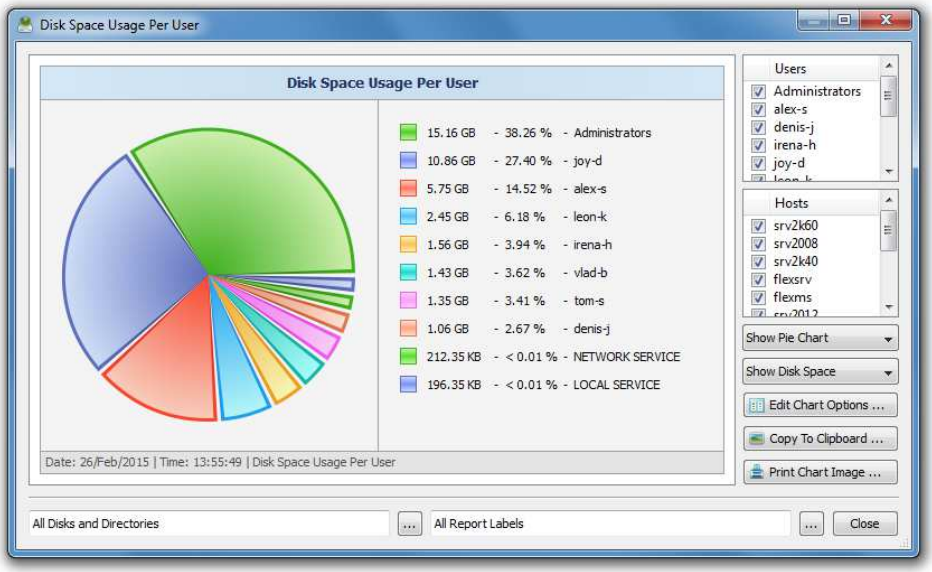
The hosts analysis dialog shows disk space usage per server according to disk space analysis reports saved in the reports database. The right-side hosts view provides the ability to select/unselect specific servers to be included in the chart. The bottom disks and directories selector allows one to select which network shares should be included in the chart. In order to copy the chart image to the clipboard, press the 'Copy To Clipboard' button located on the right side of the hosts analysis dialog.

4.13 Analyzing Disk Space Usage Per User

DiskSavvy Server and DiskSavvy Enterprise provide the ability to analyze files owned by multiple users on one or more servers or NAS storage devices and display charts showing the amount of the used disk space and the number of files per user. In order to perform the users analysis operation, press the 'Reports' button located on the main toolbar, press the 'Analyze' button and select the 'Disk Space Usage Per User' menu item.


Disk Space Analysis Reports
Command Name
Contains
Date Time Command Host Inputs Results Title
2015/04/21 15:00:12 Analyze NAS Server flexms \\flexms\da... 1768181 Files, 0.99 TB Disk Space Analysis Report
2015/04/21 14:57:25 Analyze XP32D xp32d \\xp32d\dis... 58906 Files, 2.63 GB Disk Space Analysis Report
2015/04/21 14:53:52 Analyze SRV2008 srv2008 \\srv2008\d... 78166 Files, 17.10 GB Disk Space Analysis Report
2015/04/21 14:51:08 Analyze FlexSrv flexsrv \\flexsrv\ale... 16080 Files, 7.72 GB Disk Space Analysis Report
2015/04/21 14:49:22 Analyze System Disk flexcore c:\;d:\;f:\;h:\ 386442 Files, 380.22 GB Disk Space Analysis Report
2015/04/21 12:53:39 Analyze Disk D flexcore d:\ 47042 Files, 9.06 GB Disk Space Analysis Report
2015/03/18 11:33:23 Analyze Users srv2008 \\srv2008\u... 182590 Files, 24.47 GB Disk Space Analysis Report
2015/03/18 11:23:54 Analyze SRV2K40 srv2k40 \\srv2k40\d... 664584 Files, 11.87 GB Disk Space Analysis Report
2015/03/18 11:21:05 Disk Space Analysis - sr... srv2k62 \\srv2k62\s... 32721 Files, 4.90 GB Disk Space Analysis Report
2015/03/18 11:20:55 Disk Space Analysis - sr... srv2k61 \\srv2k61\s... 32721 Files, 4.90 GB Disk Space Analysis Report
2015/03/18 11:20:45 Disk Space Analysis - sr... srv2k60 \\srv2k60\s... 32721 Files, 4.90 GB Disk Space Analysis Report
2015/03/18 11:20:37 Disk Space Analysis - sr... srv2k63 \\srv2k63\s... 32721 Files, 4.90 GB Disk Space Analysis Report
Save Summary
Analyze
Import
Export
Delete
Reports: 12
Dispalyed: 12
Close
Disk Space Usage Per Host ...
Disk Space Usage Per User ...
View Top 100 Directories ...
View Top 100 Files ...

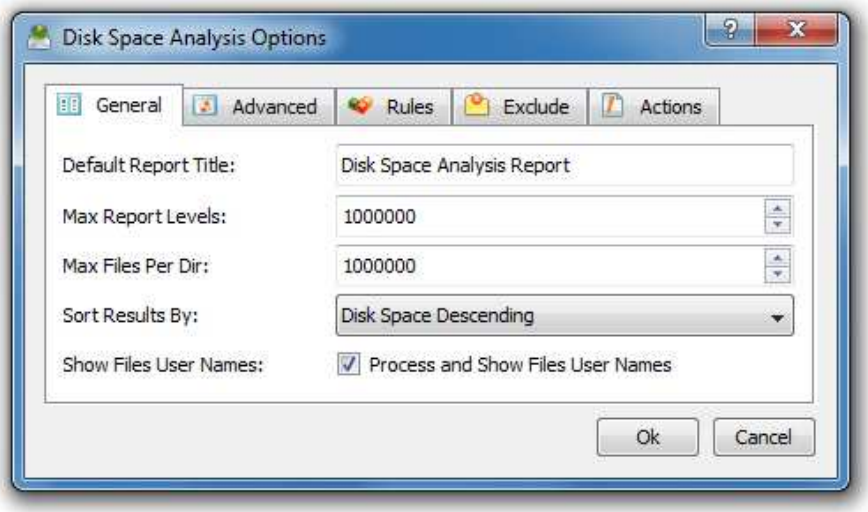
In order to be able to perform the users analysis operation, create a disk space analysis command, open the command dialog, press the 'Options' button, select the 'General' tab and enable the **'Show and Process User Names'** option. Now, press the 'Network' button located on the main toolbar to search all servers and NAS devices on the network, select one or more servers to analyze, press the 'Batch' button and select the previously configured disk space analysis command to be executed on all selected servers and NAS storage devices.


Disk Space Usage Per User
Disk Space Usage Per User
15.16 GB - 38.26 % - Administrators
10.86 GB - 27.40 % - joy-d
5.75 GB - 14.52 % - alex-s
2.45 GB - 6.18 % - leon-k
1.56 GB - 3.94 % - irena-h
1.43 GB - 3.62 % - vlad-b
1.35 GB - 3.41 % - tom-s
1.06 GB - 2.67 % - denis-j
212.35 KB - < 0.01 % - NETWORK SERVICE
196.35 KB - < 0.01 % - LOCAL SERVICE
Date: 26/Feb/2015 | Time: 13:55:49 | Disk Space Usage Per User
Users
Administrators
alex-s
denis-j
irena-h
joy-d
Hosts
srv2k60
srv2008
srv2k40
flexsrv
flexms
Show Pie Chart
Show Disk Space
Edit Chart Options ...
Copy To Clipboard ...
Print Chart Image ...
All Disks and Directories
All Report Labels
Close

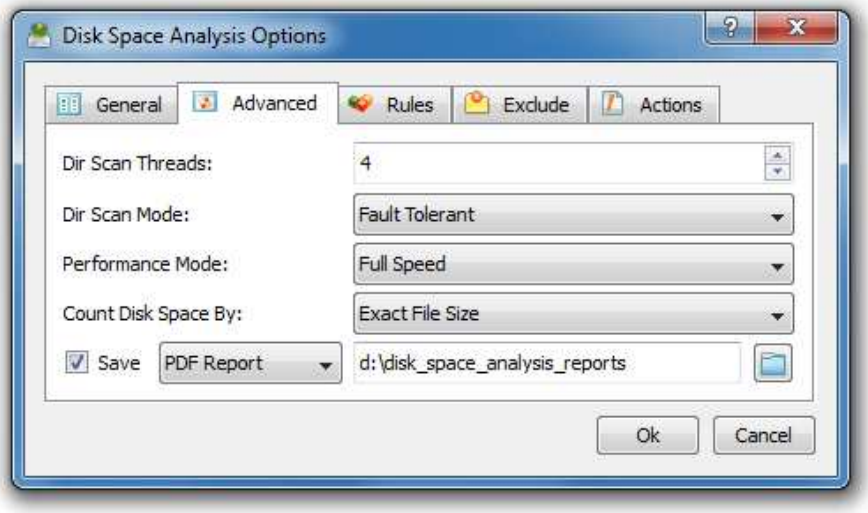
The users analysis dialog shows disk space usage per user according to disk space analysis reports saved in the reports database. The right-side users view provides the ability to select/unselect specific user names to be included in the chart. The bottom disks and directories selector allows one to select which network shares should be included in the chart. In order to copy the chart image to the clipboard, press the 'Copy To Clipboard' button located on the right side of the users analysis dialog.

4.14 Advanced Disk Space Analysis Options

For regular disk space analysis operations, the default disk space analysis options are good enough and there is no need to change any configuration parameters. But, for advanced users, DiskSavvy Server provides a large set of disk space analysis configuration options allowing one to customize disk space analysis operations for user-specific needs and hardware configurations.



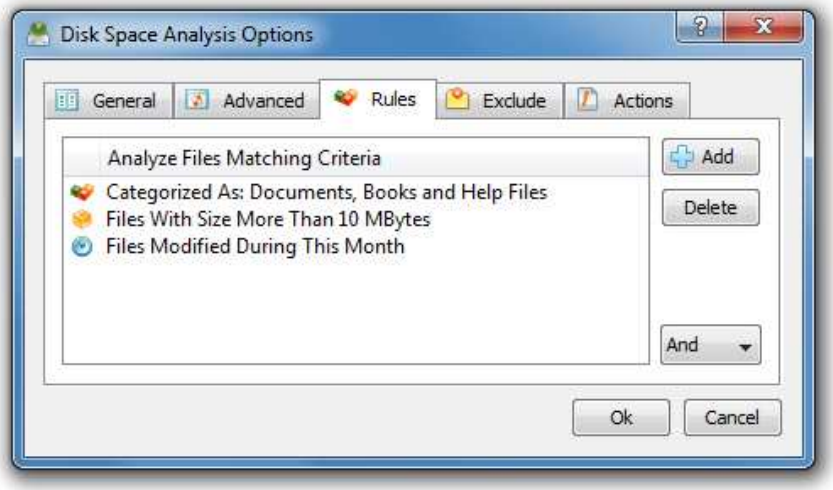
In order open the advanced disk space analysis options dialog, open the disk space analysis command dialog and press the 'Options' button. The '**General**' tab provides the ability to change the default report title, the maximum number of report levels, the maximum number of files per directory, the results sorting mode and enable/disable display of files' user names in all types of disk space analysis reports.



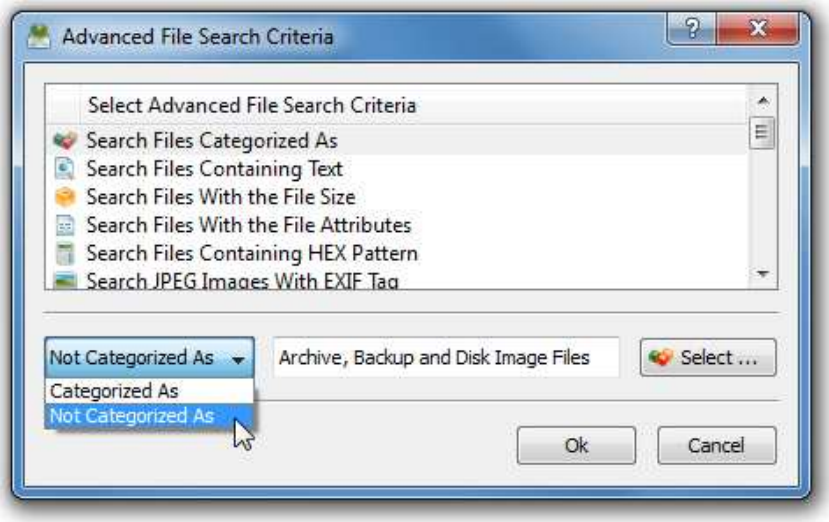
The '**Advanced**' tab allows one to change the number of parallel directory scanning threads, the directory scanning mode, the disk space analysis performance mode and the disk space counting mode. In addition, the user is provided with the ability to enable automatic generation of HTML, PDF, XML, Excel CSV, text or SQL database reports after each completed disk space analysis operation.

4.15 Disk Space Analysis Rules

DiskSavvy Server provides the ability to analyze disk space usage for specific types of files or file categories using an extensive set of file matching rules capable of matching files by the file name, extension, directory, file type, file size, creation, last modification or last access dates, etc. In order to add one or more file matching rules to a disk space analysis command, open the disk space analysis command dialog, press the 'Options' button, select the 'Rules' tab and press the 'Add Rule' button.



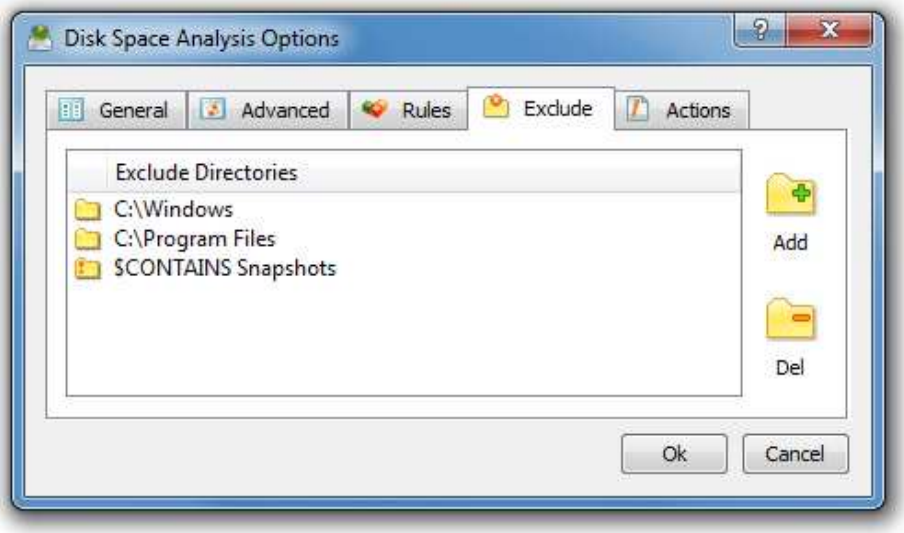
On the file matching rule dialog, select an appropriate rule type, select an operator, enter a rule value and press the 'Save' button. DiskSavvy Server allows one to add an unlimited number of file matching rules to each disk space analysis command and apply the (AND) or (OR) logical operators. For example, the user is provided with the ability to analyze all types of documents with the file size more than X MB that were modified during the last month.



In addition to positive file matching rules specifying which types of files to analyze, DiskSavvy Server provides negative file matching rules allowing one to exclude specific types or groups of files from the disk space analysis process. For example, in order to exclude all types of archive and backup files from the disk space analysis process, add a file category rule, set the rule operator to 'Not Categorized' and select the 'Archive and Backup Files' file category.

4.16 Excluding Subdirectories from Disk Space Analysis Process

Sometimes, it may be required to exclude one or more subdirectories from the disk space analysis process. For example, if you need to analyze a disk excluding one or two special directories, you may specify the whole disk as an input directory and add the directories that should be skipped to the exclude list.



In order to add one or more directories to the exclude list, open the disk space analysis command dialog, press the 'Options' button, select the 'Exclude' tab and press the 'Add' button. All files and subdirectories located in the specified exclude directories will be excluded from the disk space analysis process. In addition, advanced users are provided with a number of exclude directories macro commands allowing one to exclude multiple directories using a single macro command.

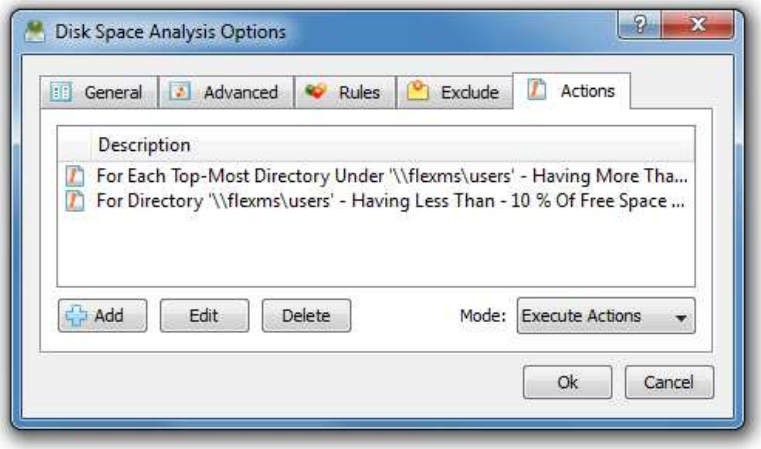
DiskSavvy Server provides the following exclude directories macro commands:

- **$BEGINS <Text String>** - this macro command excludes all directories beginning with the specified text string.
- **$CONTAINS <Text String>** - this macro command excludes all directories containing the specified text string.
- **$ENDS <Text String>** - this macro command excludes all directories ending with the specified text string.
- **$REGEX <Regular Expression>** - this macro command excludes directories matching the specified regular expression.

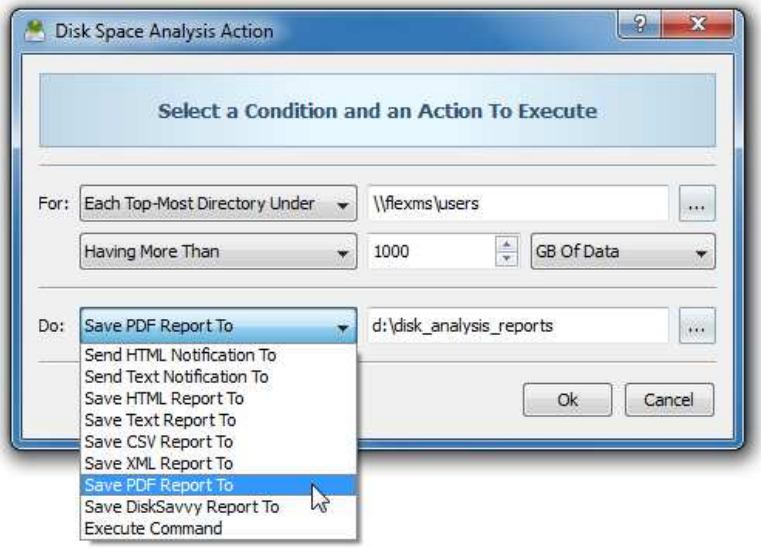
For example, the exclude macro command '$CONTAINS Temporary Files' will exclude all directories with 'Temporary Files' in the full directory path and the exclude macro command '$REGEX \.(TMP|TEMP)$' will exclude directories ending with '.TMP' or '.TEMP'.

4.17 Conditional Disk Space Analysis Actions

One of the most powerful capabilities of DiskSavvy Server is the ability to evaluate disk space analysis results and send E-Mail notifications and/or automatically generate reports for each disk or directory matching user-specified rules and conditions. For example, the user is provided with the ability to send E-Mail notifications and/or generate reports when too much data or too many files are detected in a disk or directory.



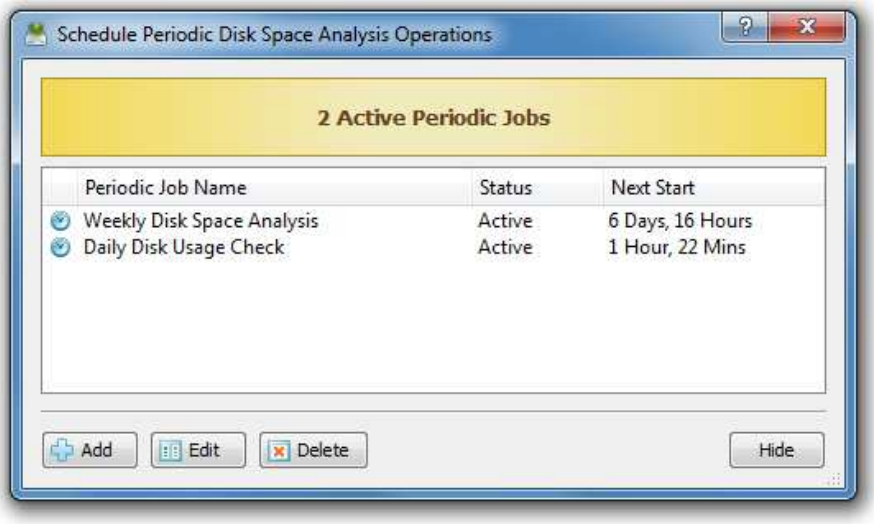
In order to add one or more disk space analysis actions, open the disk space analysis command dialog, press the 'Options' button, select the 'Actions' tab and press the 'Add Action' button. On the disk space analysis action dialog, specify a condition that should trigger the action and an operation to perform when the condition is met. Conditional disk space analysis actions are designed to be used with periodic disk space analysis operations allowing one to automatically perform disk space analysis operations, evaluate disk space analysis results and send E-Mail notifications and/or save reports if disk space analysis results for one or more disks, directories or network shares match user-specified rules and policies.



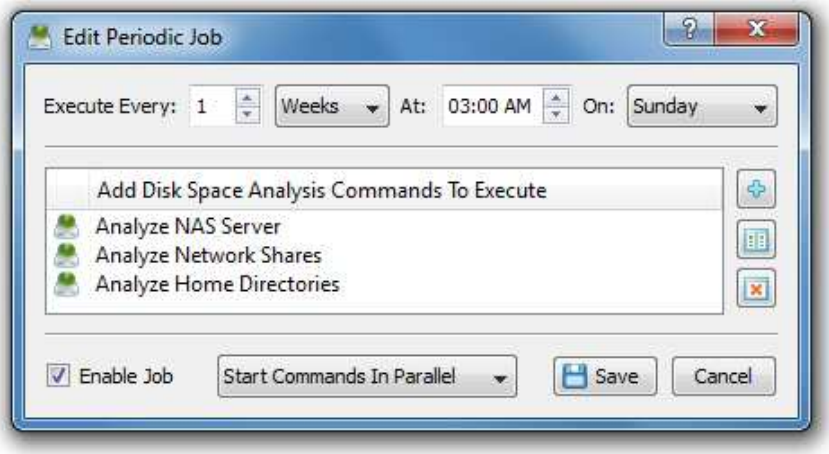
Conditional disk space analysis actions may be especially useful in conjunction with file matching rules allowing one to analyze specific types of files or file categories and send notifications and/or generate reports informing about abnormal or undesired patterns in disk space usage. For example, the user may define file matching rules specifying to analyze all types of images with the file size larger that X MB that were not accessed during the last Y months and send an E-Mail notification and/or generate a report for each directory containing a user-specified number of such files.

4.18 Periodic Disk Space Analysis Operations

DiskSavvy Server allows one to setup a number of periodic disk space analysis jobs with each one configured to perform one or more disk space analysis commands at specific time intervals. In order to add a periodic disk space analysis job, press the 'Jobs' button located on the main toolbar and press the 'Add' button.



On the periodic job dialog, specify the time interval and select one or more disk space analysis commands to execute. By default, in order to reduce the CPU load and memory usage on the server, DiskSavvy Server performs scheduled disk space analysis operations sequentially, one after one while saving reports and executing conditional disk space analysis actions if required. In addition, advanced users are provided with the ability to configure periodic jobs to execute a number of disk space analysis commands in parallel thus reducing the time required to analyze a number of servers and/or NAS storage devices.

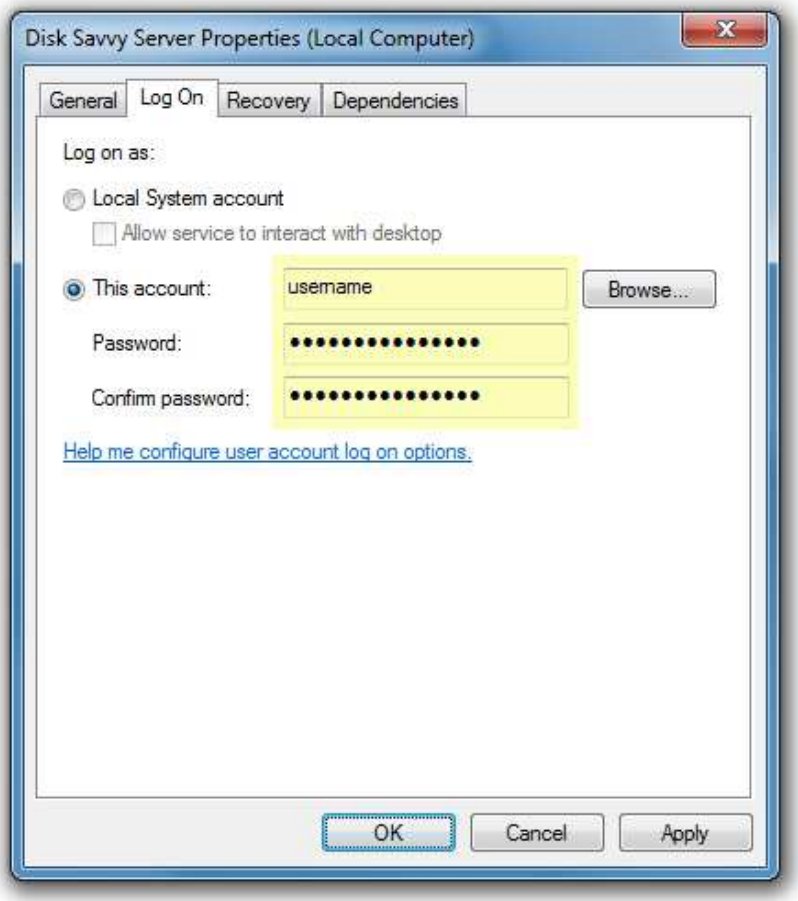


Finally, the user is provided with the ability to intentionally slow down disk space analysis operations, in order to completely eliminate performance impact on production servers. To slow down a disk space analysis operation, open the disk space analysis command dialog, press the 'Options' button, select the 'Advanced' tab, select the 'Low Speed' performance mode and press the 'Save' button.

4.19 Using DiskSavvy Server to Analyze Network Shares

DiskSavvy Server runs in the background as a service and allows one to analyze disks, directories and network shares when no users are logged in. By default, the DiskSavvy service is configured to run under the local system account, which is good to analyze local disks and directories. On the other hand, the local system account does not have permissions to analyze network shares and NAS storage devices.

In order to enable DiskSavvy Server to analyze network shares and NAS storage devices, the DiskSavvy service should be configured to run under a user account with permissions to access files and directories located on the required network shares.



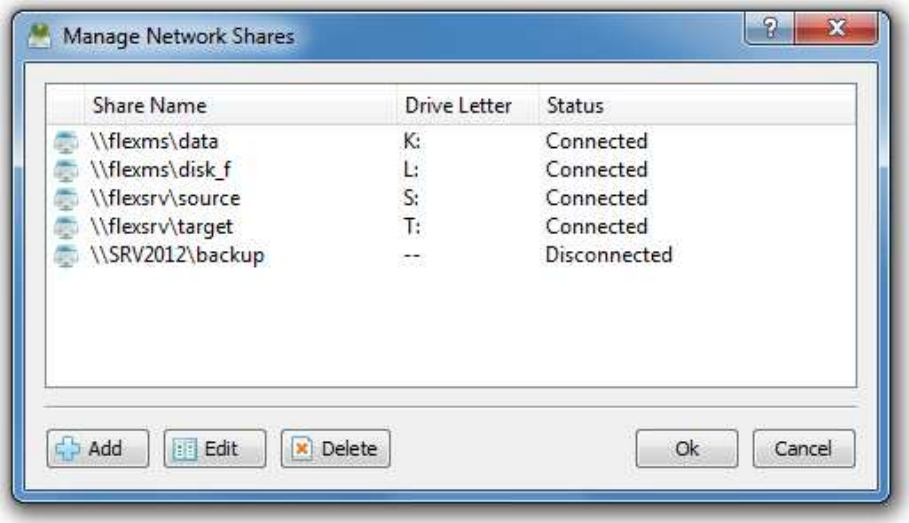
The configuration is very simple and may be performed within a couple of seconds using the following step-by-step guide:

1. Open the Windows control panel and click on the 'Administrative Tools' utility.
2. Open the Services control center and find here the 'Disk Savvy Server' service.
3. Open the 'Disk Savvy Server' service, select the 'General' tab and stop the service.
4. Select the 'Log On' tab and specify a user account to use for the service.
5. Select the 'General' tab and start the ' Disk Savvy Server' service.

Now, the DiskSavvy service will run under the specified user account and will have exactly the same permissions as the specified user account when accessing network shares and NAS storage devices.

Sometimes, it may be required to analyze multiple network shares and NAS storage devices in different domains using different user accounts. In order to connect to a network share with a custom user name and/or password, select the menu 'Tools - Connect Network Drive', enter the name of the network share to connect to and specify the user name and password to use.

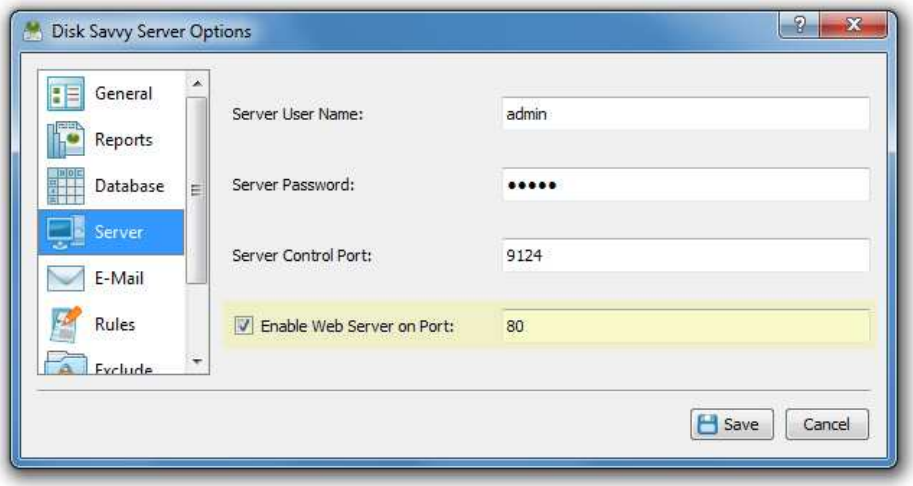
When analyzing tens of network shares and NAS storage devices, it may be not convenient to assign a drive letter for each connected network share just because there may be not enough letters to assign to all the required network shares. For such cases, the user is provided with the ability to connect network shares without assigning drive letters. In order to connect a network share without assigning a drive letter, unselect the 'Local Disk' check box on the network share configuration dialog.



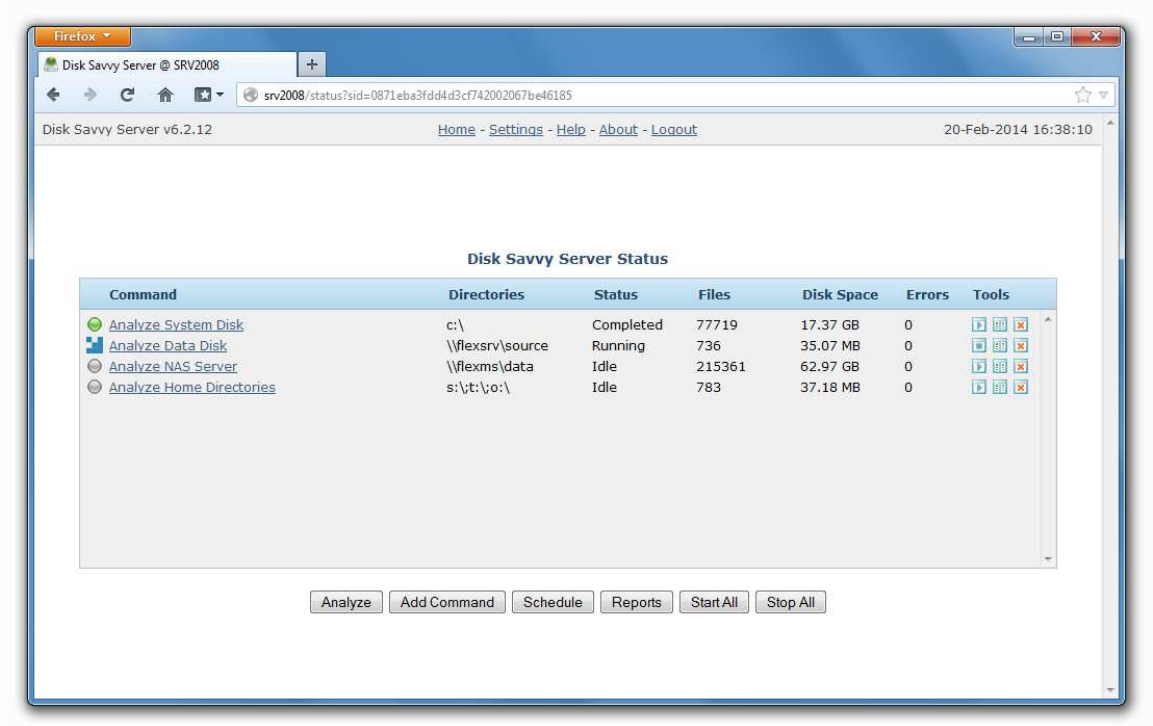
DiskSavvy Server provides the ability to configure periodic disk space analysis operations to be executed fully automatically in the background. In order to enable automated periodic analysis of network shares and NAS storage devices, DiskSavvy allows one to pre-configure a list of network shares to be automatically connected during the server startup. The user is provided with the ability to specify an unlimited number of network shares to connect to and optionally configure custom login credentials for each specific network share. In order to pre-configure one or more network shares, select the 'Tools - Manage Network Shares' menu item, press the 'Add' button and specify all the required parameters.

4.20 Using Web-Based Management Interface

In addition to the DiskSavvy client GUI application and the command line utility, DiskSavvy Enterprise provides a web-based management interface allowing one to control one or more servers using a regular web browser locally or via the network. The web-based management interface allows one to perform disk space analysis operations, save various types of reports, perform disk space usage history trend analysis operations and schedule periodic disk space analysis operations.



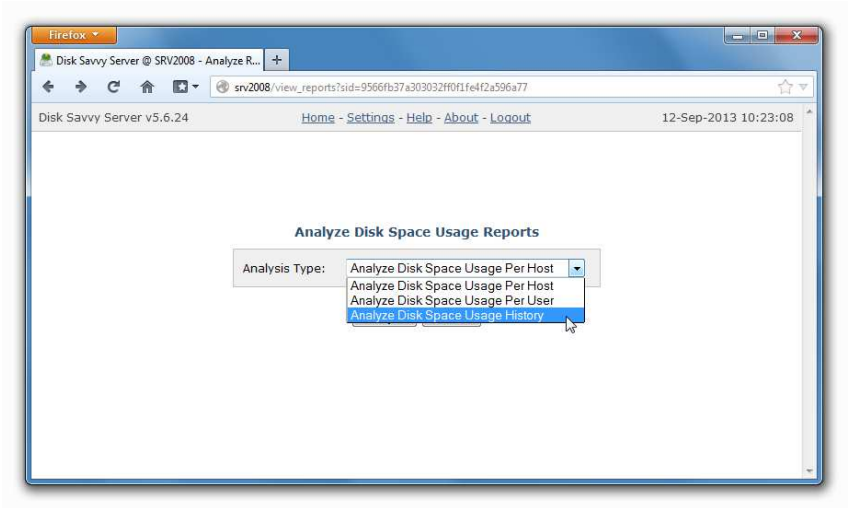
By default, the web-based management interface is disabled and in order to enable the web-based management interface, open the DiskSavvy client GUI application, connect to a server, open the 'Options' dialog, select the 'Server' tab, select the 'Enable Web Server' option and press the 'Save' button.



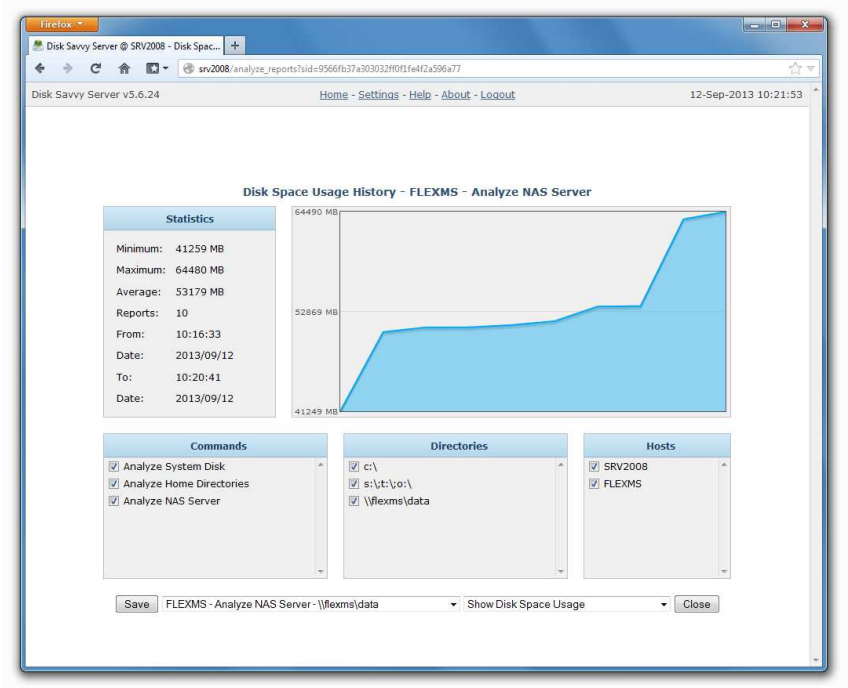
In order to connect to the DiskSavvy Enterprise web-based management interface, open a regular web browser, type the host name or an IP address of the server to connect to and login to the DiskSavvy Enterprise using the default (**admin**/**admin**) user name and password.

4.21 Analyzing Disk Space Usage History Trends

System and storage administrators are provided with the ability to analyze how disk space usage is changing over time. In order to be able to perform the disk space usage history trend analysis, the user needs to setup one or more periodic disk space analysis commands or manually perform multiple disk space usage analysis operations over time.


Disk Savvy Server @ SRV2008 - Analyze R...
srv2008/view_reports?sid=9566fb37a303032ff0f1fe4f2a596a77
Disk Savvy Server v5.6.24
Home - Settings - Help - About - Logout
12-Sep-2013 10:23:08
Analyze Disk Space Usage Reports
Analysis Type:
Analyze Disk Space Usage Per Host
Analyze Disk Space Usage Per Host
Analyze Disk Space Usage Per User
Analyze Disk Space Usage History

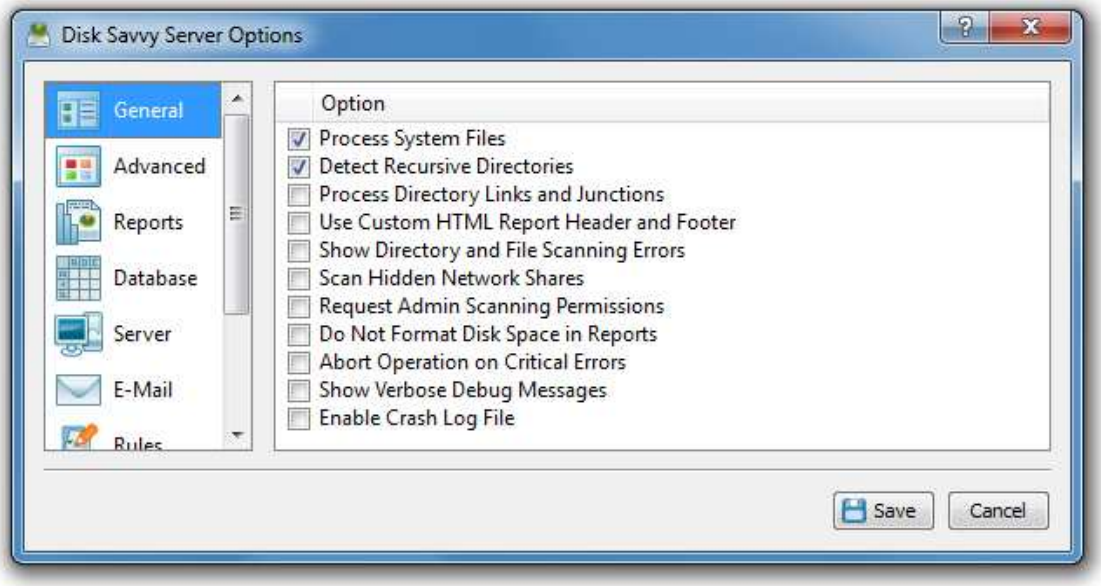
With multiple disk usage reports saved in the report database, press the 'Reports' button located on the main status page, press the 'Analyze' button, select the 'Analyze Disk Space Usage History' option and press the 'Analyze' button. DiskSavvy Server will generate a list of charts - one for each set of directories in each analyzed server and/or NAS storage device.



The top-left side of the history analysis page shows the statistics for the currently selected history chart. The top-right side shows the history line chart according to the currently selected chart and chart units. The three bottom-side panes provide the ability to filter charts by the command name, processed directories and/or the host name of the server or NAS storage device. In order to save the currently displayed history chart to a graphical PDF report, press the 'Save' button and then click on the report file link to download the report file.

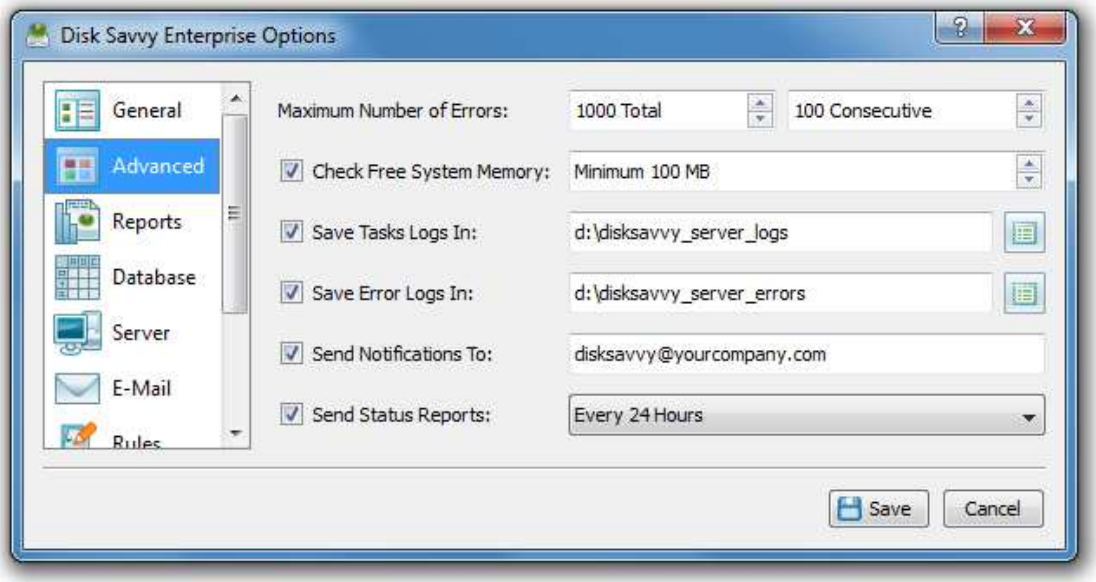
4.22 Configuring DiskSavvy Server

DiskSavvy Server provides a large set of configuration options allowing one to customize product features and easily integrate the product into a user-specific network environment. In order to open the main options dialog, press the 'Options' button located on the main toolbar. The '**General**' tab includes a set of general purpose options allowing one to customize the product for user-specific needs.



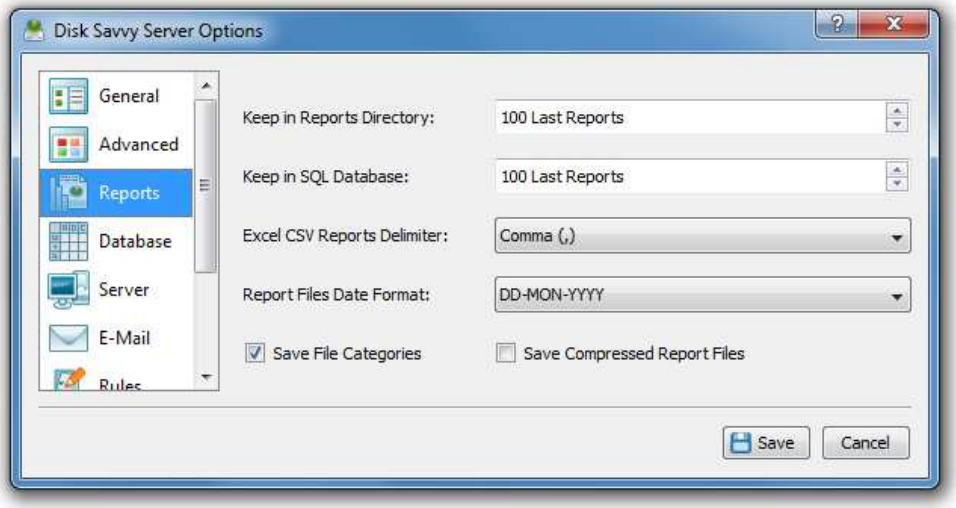
- **Process System Files** - this option enables scanning and analysis of system and hidden directories and files.
- **Detect Recursive Directories** - this option enables automatic detection of potentially recursive directory structures which can result in endless directory scanning loops.
- **Process Directory Links and Junctions** - this option enables scanning and analysis of directory links and junctions. By default, in order to prevent repeated analysis of directories with multiple entry points, this option is disabled.
- **Show Directory and File Scanning Errors** - this option enables display of additional error messages for directory and file scanning errors.
- **Scan Hidden Network Shares** - this option enables search and discovery of hidden network shares in network servers and NAS storage devices.
- **Request Admin Scanning Permissions** - this option enables administrative permissions for directory scanning operations allowing one to scan and analyze protected directories.
- **Do Not Format Disk Space In Reports** - this option disables formatting of disk space in disk space analysis reports.
- **Abort Operation on Critical Errors** - this option aborts disk space analysis operations when a directory scanning error is detected. By default, this option is disabled and all directory scanning errors are just logged in the error log.
- **Show Verbose Debug Messages** - this option enables additional verbose debug and error messages.
- **Enable Crash Log File** - this option enables a special crash log file to be continuously saved during the disk space analysis process in order to help to identify root causes of critical bugs and problems. By default, this option is disabled and in normal circumstances there is no need to enable this option.

The '**Advanced**' options tab provides the ability to configure the maximum number of total errors, the maximum number of consecutive errors, the minimum amount of the free system memory, the disk space analysis tasks logs directory, the disk space analysis errors logs directory, the error e-mail notifications address and periodic status reports notifications.

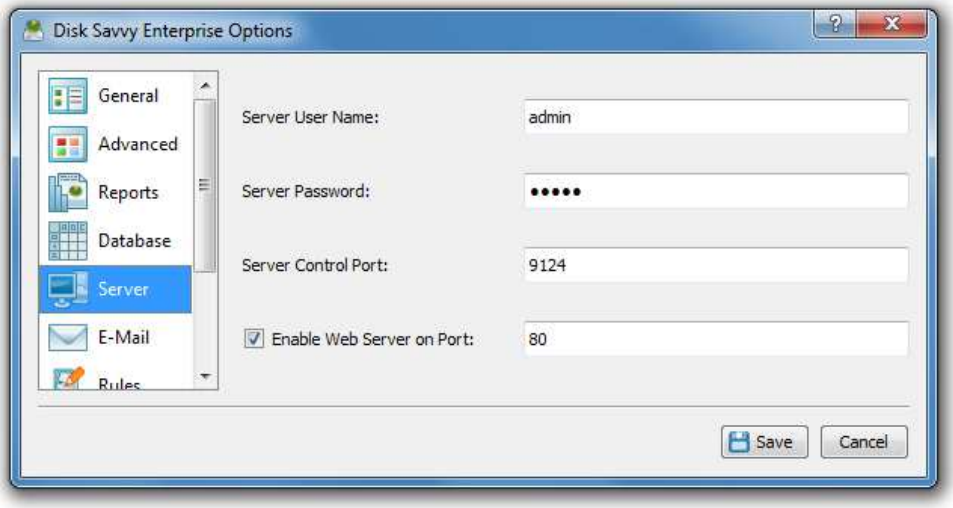


- **Maximum Number of Total Errors** - this option controls the maximum number of total directory and file scanning errors for a disk space analysis operation. If a disk space analysis operation will reach the maximum number of total errors, the analysis operation will be aborted.
- **Maximum Number of Consecutive Errors** - this option controls the maximum number of consecutive directory and file scanning errors for a disk space analysis operation. If a disk space analysis operation will reach the maximum number of consecutive errors, the analysis operation will be aborted.
- **Minimum Amount of Free System Memory** - this option enables monitoring of the free system memory during the disk space analysis process. If the amount of the free system memory will drop below the specified minimum, all disk space analysis operation will be aborted. This option prevents excessive memory usage when analyzing huge file systems containing tens and hundreds of millions of files.
- **Tasks Logs Directory** - this option enables disk space analysis tasks log files to be saved in a user-specified directory.
- **Errors Logs Directory** - this option enables disk space analysis error log files to be saved in a user-specified directory.
- **Error E-Mail Notifications** - this option enables error E-Mail notifications to be sent when a disk space analysis operation fails. The user needs to specify an E-Mail address to send notifications to and configure an SMTP server to use on the 'E-Mail' tab.
- **Status Reports E-Mail Notifications** - this option enables periodic status reports to be sent to a user-specified E-Mail address.

The '**Reports**' tab provides the ability to control and customize various types of disk space analysis reports. The 'Keep in Reports Directory' option controls how many report files for each disk space analysis command are kept in the reports directory when automatic generation of HTML, PDF, XML, Excel CSV or text reports is enabled. When the number of report files in the reports directory reaches the specified limit, DiskSavvy Server will automatically delete oldest report files. The 'Keep in SQL Database' option controls how many disk space analysis reports for each disk space analysis command are kept in the SQL database when automatic generation of SQL database reports is enabled.



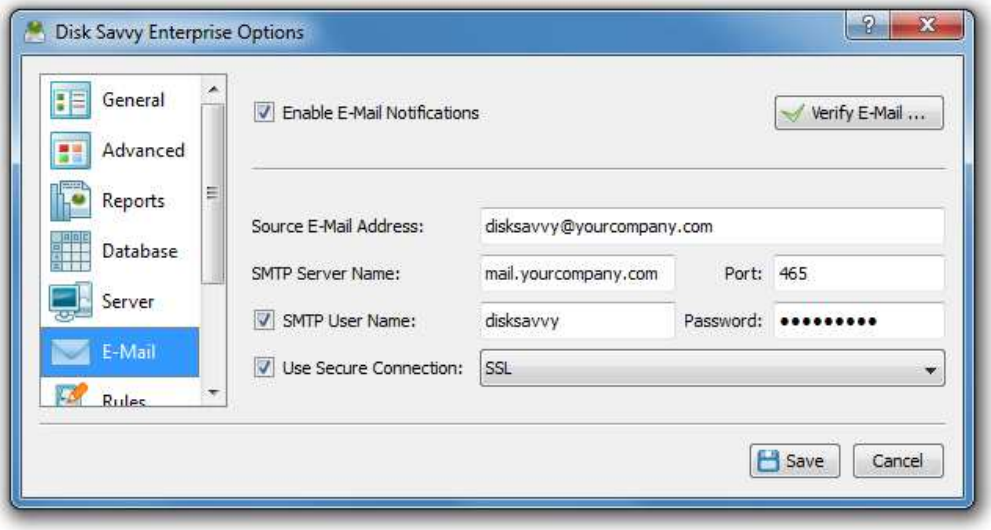
The 'Excel CSV Reports Delimiter' option provides the ability to set a custom field delimiter used to save Excel CSV reports. The 'Report Files Date Format' allows one to customize the date format used in disk space analysis reports. The 'Save File Categories' option enables export of second-level file categories in disk space analysis reports. The 'Save Compressed Report Files' option enables compressed report files for HTML, CSV, XML and text reports.



The '**Server**' tab allows one to change the DiskSavvy Server user name and password (default is admin/admin) used by the DiskSavvy client GUI application and the DiskSavvy command line utility to login to DiskSavvy Server. In addition, the user is provided with the ability to change the default TCP/IP port used by the DiskSavvy server. Finally, DiskSavvy Enterprise provides the ability to enable a web-based management interface allowing one to control disk space analysis operations and review disk space analysis results using a regular web browser locally or through the network. In order to be able to control DiskSavvy via the network, the server control port and/or the web-based interface port should be open in the server's firewall.

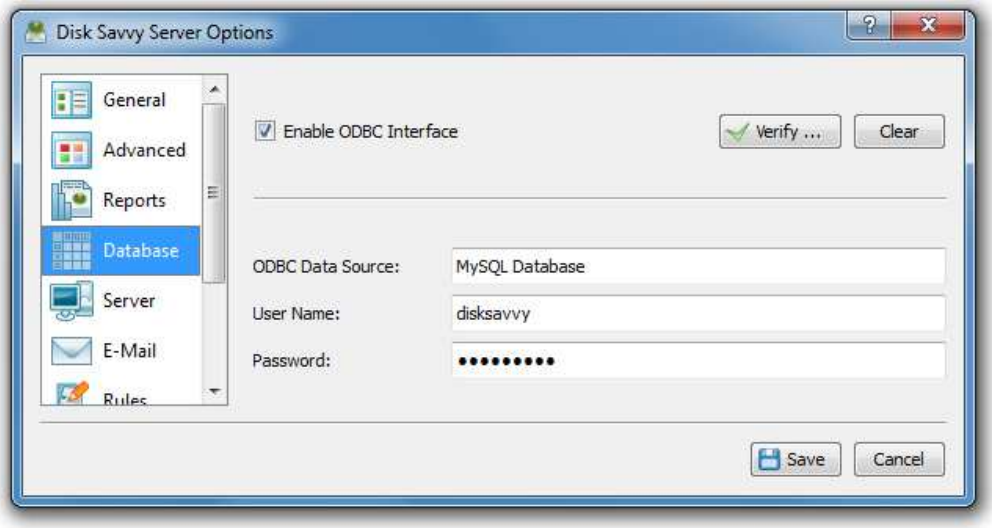
4.23 Configuring E-Mail Notifications

DiskSavvy Server provides the ability to send E-Mail notifications when a user-specified disk space analysis rule is triggered for one or more disks or directories. In order to configure an SMTP E-Mail server to use to send E-Mail notifications, open the main options dialog, select the 'E-Mail' tab, enter the SMTP server host name, SMTP server port, SMTP user name, password and the source E-Mail address to use to send E-Mail notifications.



4.24 Configuring SQL Database Integration

DiskSavvy Server provides the ability to save disk space analysis reports to an SQL database allowing one to keep a history of reports for future review and analysis. In order to enable automatic SQL database reports for a disk space analysis command, open the disk space analysis command dialog, press the 'Options' button, select the 'Advanced' tab, enable the 'Save Report' option, select the 'SQL Database' report format and press the 'Save' button.



DiskSavvy Server exports SQL database reports through the ODBC database interface, which should be configured to operate properly. In order to configure the ODBC database interface, open the main options dialog, select the 'Database' tab, enable the ODBC database interface, specify the ODBC data source, ODBC user name and password to use to save reports to the SQL database.

4.25 DiskSavvy Server Command Line Utility

In addition to the DiskSavvy client GUI application, DiskSavvy Server provides a command line utility allowing one to control one or more DiskSavvy Servers locally or via the network. The DiskSavvy command line utility is located in **<ProductDir>/bin** directory.

DiskSavvy Server Command Line Syntax:

disksavvy -server_show_commands

Shows disk space analysis commands configured in DiskSavvy Server.

disksavvy -server_start_command <Command Name>

Starts the specified disk space analysis command.

disksavvy -server_stop_command <Command Name>

Stops the specified disk space analysis command.

disksavvy -server_command_status <Command Name>

Shows the current status of a disk space analysis command.

disksavvy -server_command_errors <Command Name>

Shows process errors for a disk space analysis command.

disksavvy -server_delete_command <Command Name>

Deletes the specified disk space analysis command.

disksavvy -server_export_reports -reports_dir <Directory>

Exports disk space analysis reports to the specified directory.

disksavvy -server_import_reports -reports_dir <Directory>

Imports disk space analysis reports from the specified directory.

disksavvy -server_status

Shows the current DiskSavvy Server status.

disksavvy -server_debug_log

Shows the DiskSavvy Server debug log.

Miscellaneous Commands:

disksavvy -v

Shows the product major version, minor version, revision and build date.

disksavvy -help

This command shows the command line usage information.

Command Line Options:

-host <Host Name>

Specifies the host name or an IP address of DiskSavvy Server to connect to. If not specified, the command line utility will connect to the local host.

-port <Port Number>

Specifies the TCP/IP port to connect to. If not specified, the command line utility will connect to the default DiskSavvy Server TCP/IP port 9124.

-user <User Name>

Specifies a user name to login to DiskSavvy Server. If not specified, the command line utility will login using the default "**admin**" user name.

-password <Password>

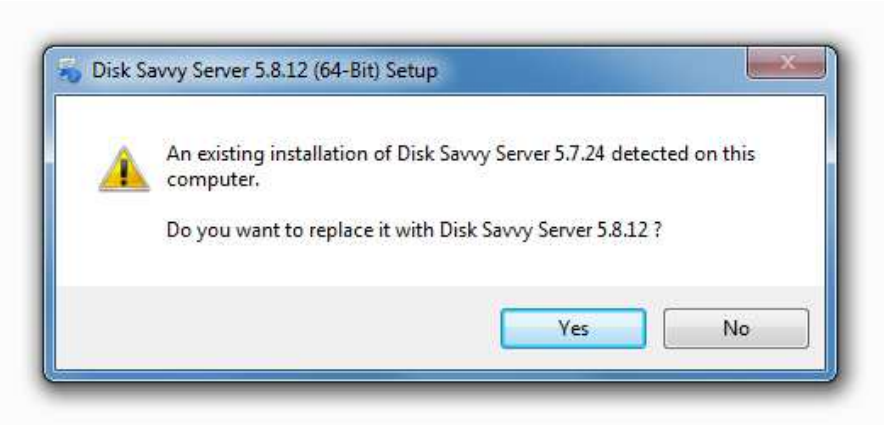
Specifies a password to login to DiskSavvy Server. If not specified, the command line utility will login using the default "**admin**" password.

4.26 Updating DiskSavvy Server

DiskSavvy Server is developed using a fast release cycle with minor product versions, updates and bug fixes released almost every month and major product versions released every year. New product versions and product updates are published on the product web site and may be downloaded from the following page: http://www.disksavvy.com/downloads.html.

Disk Savvy Server 5.8.12 (64-Bit) Setup
DiskSavvy
DISK SPACE ANALYZER
Welcome to the Disk Savvy Server 5.8.12 (64-Bit) Setup Wizard
This wizard will guide you through the installation of Disk Savvy Server 5.8.12 (64-Bit).
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
© 2007-2013 Flexense Ltd.
Next >
Cancel

Due to the fact that the product is especially designed for servers running in production environments where stability is a major decision factor, DiskSavvy Server updates should be manually installed by the user. In order to update an existing product installation, download the latest product version and just start the setup program.


Disk Savvy Server 5.8.12 (64-Bit) Setup
An existing installation of Disk Savvy Server 5.7.24 detected on this computer.
Do you want to replace it with Disk Savvy Server 5.8.12 ?
Yes
No

The DiskSavvy Server setup program will properly shutdown the running DiskSavvy service, update the product and restart the DiskSavvy service after finishing the update procedure. All product configuration files, saved disk space analysis operations, disk space analysis reports and product registration will remain valid and there is nothing to reconfigure or manage after the update.

4.27 Registering DiskSavvy Server

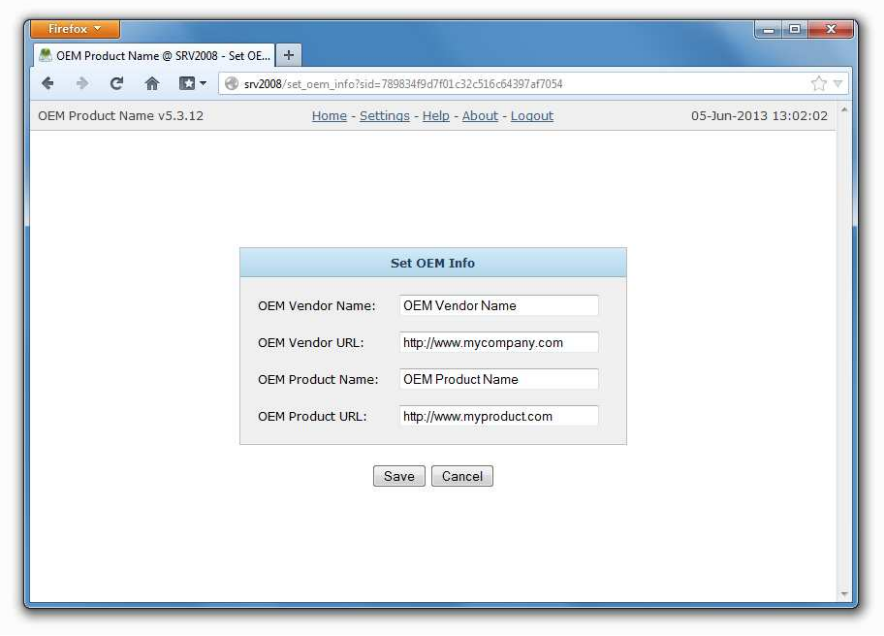
Within a couple of hours after purchasing a product license, the customer will receive two e-mail messages: the first one confirming the payment and the second one containing an unlock key, which should be used to register the product. If you will not receive your unlock key within 24 hours, please check your spam box and if the unlock key is not in the spam box, please contact our support team: **support@flexense.com**.

If the computer where DiskSavvy Server is installed on is connected to the Internet, start the DiskSavvy client GUI application, connect to the DiskSavvy server, press the 'Register' button located in the top-right corner of the main window, enter your name or your company name, enter the received unlock key and press the 'Register' button.

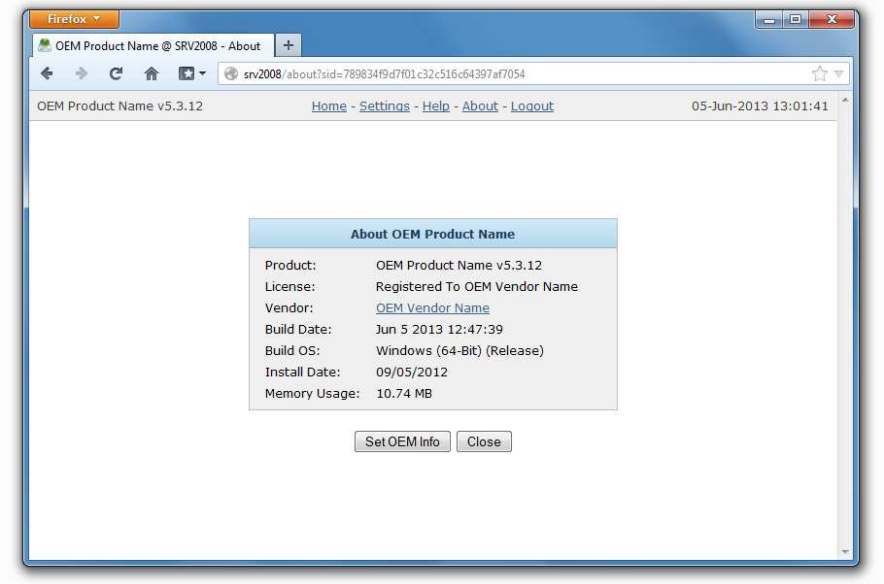
If the computer is not connected to the Internet, press the 'Manual Registration' button, export the product ID file and send the product ID file to **register@disksavvy.com** as an attachment. Within a couple of hours, you will receive an unlock file, which should be imported in order to finish the registration procedure.

4.28 DiskSavvy Enterprise OEM Version

Flexense provides system integrators, value-added distributors and IT service providers with the ability to resell DiskSavvy Enterprise and/or provide services based on the product under third-party brand names. Resellers and integrators are provided with the ability to change the product name, the product web site address, the product vendor name and the product vendor web site address displayed in the web-based management interface.



In order to be able to set custom OEM product and vendor information, the user needs to register the product using a special OEM-Enabled unlock key, which may be purchased on the product purchase page. Once the product is registered using an OEM unlock key, open the 'About' page, press the 'Set OEM Info' button, specify your custom OEM product and vendor information and press the 'Save' button.


Firefox
OEM Product Name @ SRV2008 - About
srv2008/about?sid=789834f9d7f01c32c516c64397af7054
OEM Product Name v5.3.12
Home - Settings - Help - About - Logout
05-Jun-2013 13:01:41
About OEM Product Name
Product: OEM Product Name v5.3.12
License: Registered To OEM Vendor Name
Vendor: OEM Vendor Name
Build Date: Jun 5 2013 12:47:39
Build OS: Windows (64-Bit) (Release)
Install Date: 09/05/2012
Memory Usage: 10.74 MB
Set OEM Info
Close

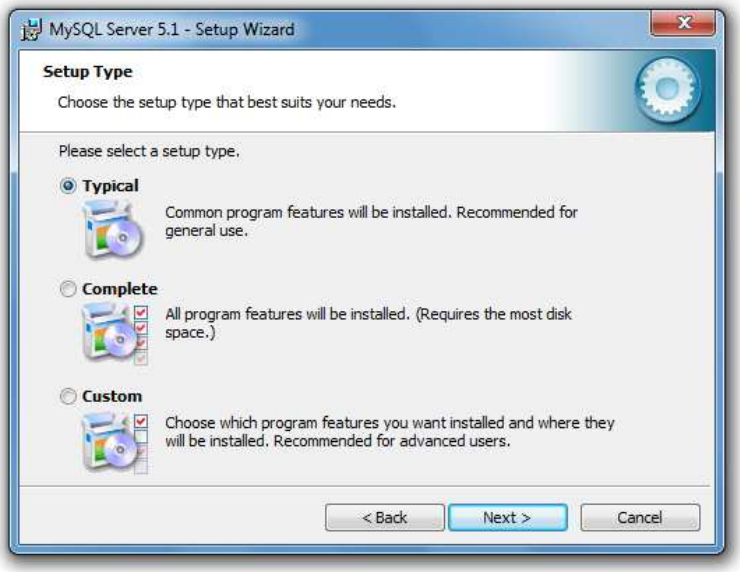
Custom OEM product and vendor information will be displayed on all pages of the DiskSavvy Enterprise web-based management interface, in all types of reports generated by the product and all notification E-Mail messages sent by DiskSavvy Enterprise.

5 Appendix

5.1 Installing MySQL Database

DiskSavvy Ultimate is capable of saving disk space analysis reports in an SQL database. Reports may be saved manually or automatically using the DiskSavvy command line utility periodically executed by the Windows built-in task scheduler.

In order to configure DiskSavvy to use the MySQL database, the user needs to install the following two components: the MySQL Server and the MySQL ODBC connector. First of all, let's install the MySQL Server. Download the latest version of the MySQL server from the MySQL web site and execute the setup program to start the installation procedure. On the setup type page, select the 'Typical' setup type and press the 'Next' button. By default, the setup will install the MySQL server and a command line utility, which will be used to configure the MySQL server.


MySQL Server 5.1 - Setup Wizard
Setup Type
Choose the setup type that best suits your needs.
Please select a setup type.
Typical
Common program features will be installed. Recommended for general use.
Complete
All program features will be installed. (Requires the most disk space.)
Custom
Choose which program features you want installed and where they will be installed. Recommended for advanced users.
< Back
Next >
Cancel

On the next setup page, select the 'Configure the MySQL Server now' option and press the 'Finish' button. The setup program will open a MySQL configuration wizard allowing one to configure basic server settings.

MySQL Server 5.1 - Setup Wizard
Wizard Completed
Setup has finished installing MySQL Server 5.1. Click Finish to exit the wizard.
Configure the MySQL Server now
Use this option to generate an optimized MySQL config file, setup a Windows service running on a dedicated port and to set the password for the root account.
Register the MySQL Server now
Use this option to register this MySQL server with SunConnect service, to receive automatic update notifications on future releases and other free offerings. A browser window will open briefly to allow you to complete the registration.
MySQL
< Back
Finish
Cancel

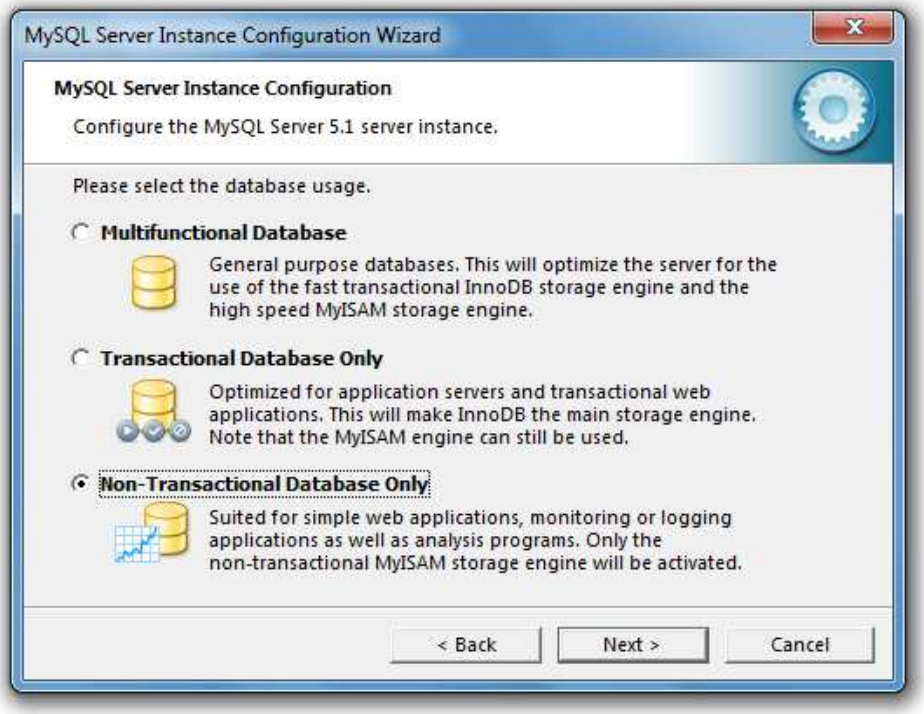
On the next setup page, select the 'Detailed Configuration' option and press the 'Next' button. The detailed configuration mode is required to configure the MySQL server for maximum database performance.

MySQL Server Instance Configuration Wizard
MySQL Server Instance Configuration
Configure the MySQL Server 5.1 server instance.
Please select a configuration type.
Detailed Configuration
Choose this configuration type to create the optimal server setup for this machine.
Standard Configuration
Use this only on machines that do not already have a MySQL server installation. This will use a general purpose configuration for the server that can be tuned manually.
< Back
Next >
Cancel

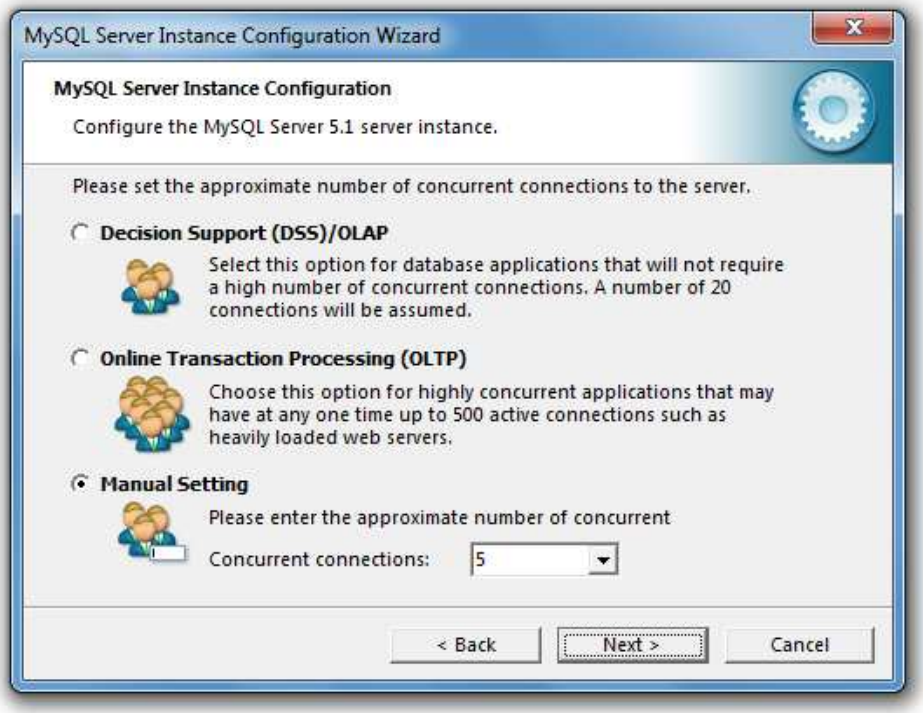
On the next page, select the 'Server Machine' option, which is the most balanced configuration for typical DiskSavvy workloads. If the server is intended to process large volumes of reports and is dedicated for DiskSavvy, select the 'Dedicated Server' configuration option.

MySQL Server Instance Configuration Wizard
MySQL Server Instance Configuration
Configure the MySQL Server 5.1 server instance.
Please select a server type. This will influence memory, disk and CPU usage.
Developer Machine
This is a development machine, and many other applications will be run on it. MySQL Server should only use a minimal amount of memory.
Server Machine
Several server applications will be running on this machine. Choose this option for web/application servers. MySQL will have medium memory usage.
Dedicated MySQL Server Machine
This machine is dedicated to run the MySQL Database Server. No other servers, such as a web or mail server, will be run. MySQL will utilize up to all available memory.
< Back
Next >
Cancel

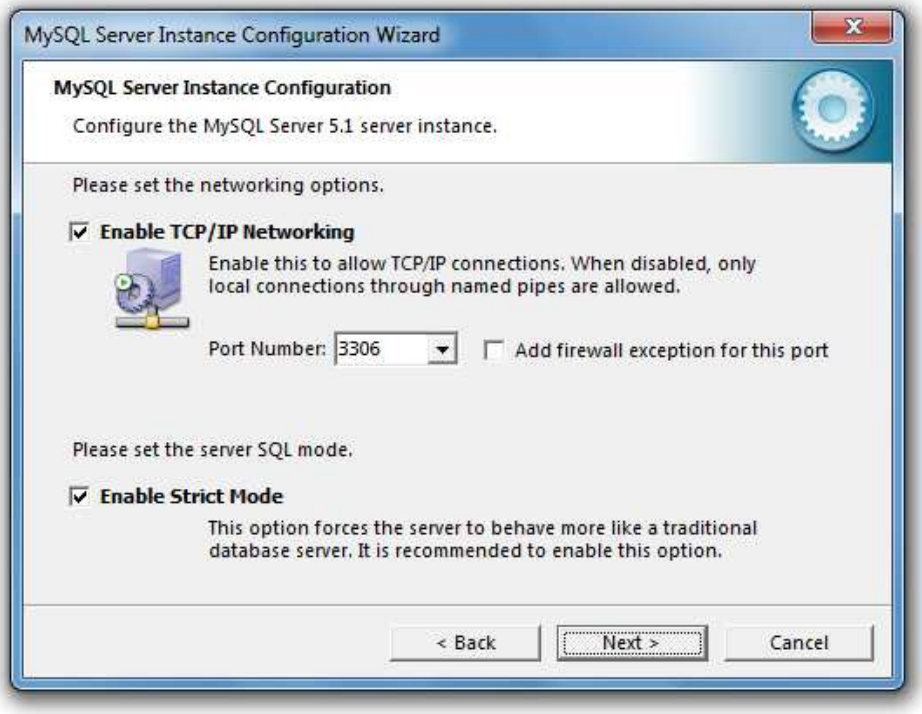
On the next page, select the 'Non-Transactional Database' option. DiskSavvy does not perform concurrent insert or modify operations on the database and a transactional database is not required. Moreover, configuring the MySQL server as a non-transactional database will significantly improve the performance of database import operations.


MySQL Server Instance Configuration Wizard
MySQL Server Instance Configuration
Configure the MySQL Server 5.1 server instance.
Please select the database usage.
Multifunctional Database
General purpose databases. This will optimize the server for the use of the fast transactional InnoDB storage engine and the high speed MyISAM storage engine.
Transactional Database Only
Optimized for application servers and transactional web applications. This will make InnoDB the main storage engine. Note that the MyISAM engine can still be used.
Non-Transactional Database Only
Suited for simple web applications, monitoring or logging applications as well as analysis programs. Only the non-transactional MyISAM storage engine will be activated.
< Back
Next >
Cancel

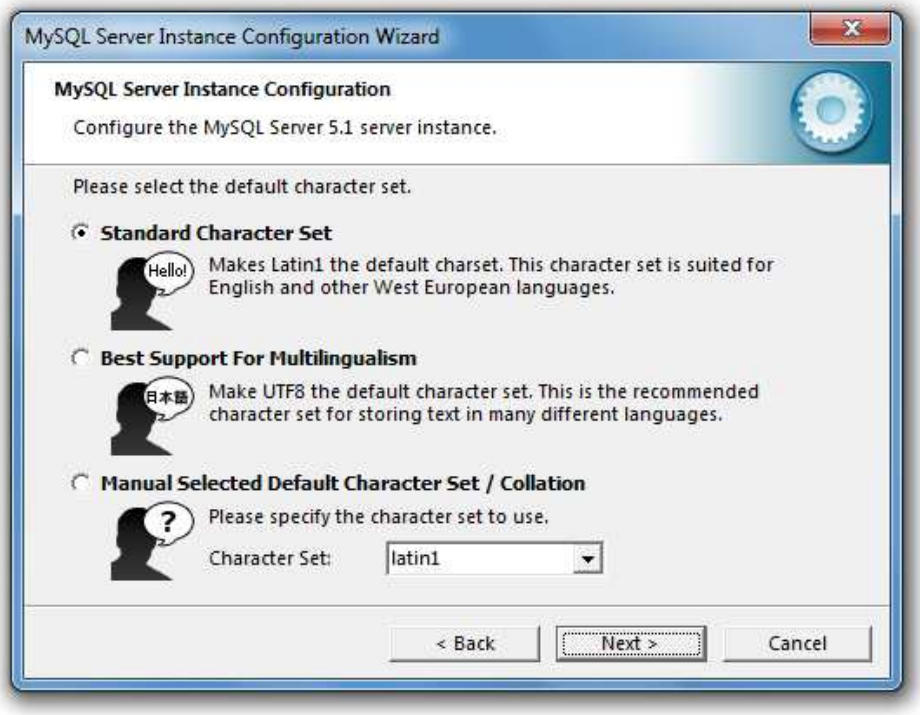
On the next page, select the 'Manual Setting' option and set the number of concurrent database connections to 5, which is the optimal number for typical DiskSavvy installations.


MySQL Server Instance Configuration Wizard
MySQL Server Instance Configuration
Configure the MySQL Server 5.1 server instance.
Please set the approximate number of concurrent connections to the server.
Decision Support (DSS)/OLAP
Select this option for database applications that will not require a high number of concurrent connections. A number of 20 connections will be assumed.
Online Transaction Processing (OLTP)
Choose this option for highly concurrent applications that may have at any one time up to 500 active connections such as heavily loaded web servers.
Manual Setting
Please enter the approximate number of concurrent
Concurrent connections:
5
< Back
Next >
Cancel

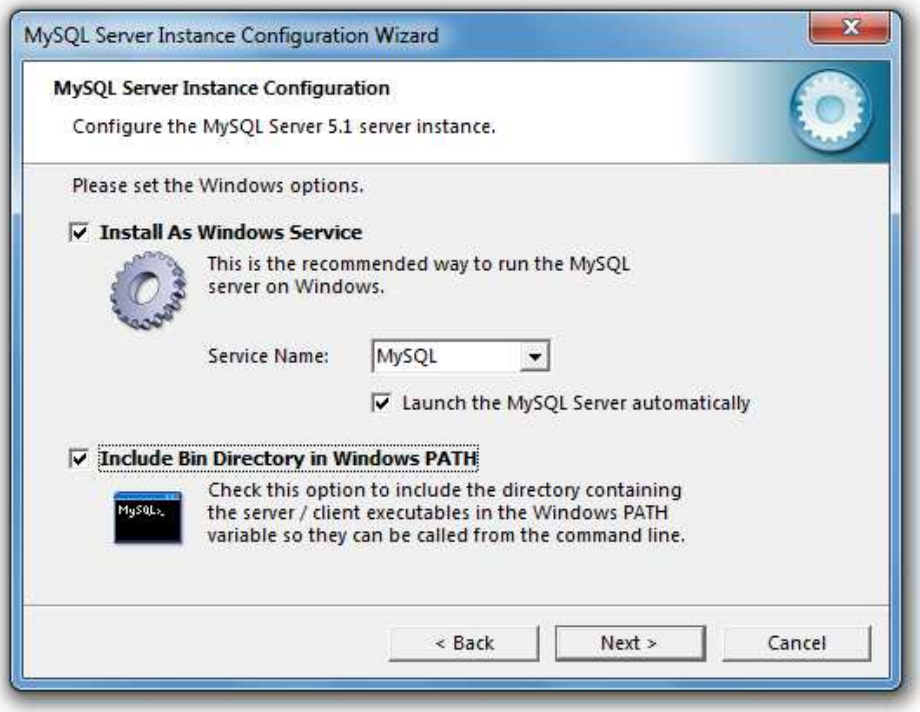
On the next page, enable TCP/IP networking and if the server will be accessed from other computers on the network, add a firewall exception for the MySQL server port. In general, a single MySQL server may be used to collect reports from multiple DiskSavvy installations using remote ODBC connections.


MySQL Server Instance Configuration Wizard
MySQL Server Instance Configuration
Configure the MySQL Server 5.1 server instance.
Please set the networking options.
Enable TCP/IP Networking
Enable this to allow TCP/IP connections. When disabled, only local connections through named pipes are allowed.
Port Number: 3306
Add firewall exception for this port
Please set the server SQL mode.
Enable Strict Mode
This option forces the server to behave more like a traditional database server. It is recommended to enable this option.
< Back
Next >
Cancel

On the next page select an appropriate character set. By default, DiskSavvy uses the UTF-8 character set to store names of files and directories, but if there is no need to process Unicode file names, this option may be set to the standard Latin1 character set.


MySQL Server Instance Configuration Wizard
MySQL Server Instance Configuration
Configure the MySQL Server 5.1 server instance.
Please select the default character set.
Standard Character Set
Hello!
Makes Latin1 the default charset. This character set is suited for English and other West European languages.
Best Support For Multilingualism
日本語
Make UTF8 the default character set. This is the recommended character set for storing text in many different languages.
Manual Selected Default Character Set / Collation
?
Please specify the character set to use.
Character Set: latin1
< Back
Next >
Cancel

On the next page, select the 'Install as Windows Service' option and select the 'Include Bin Directory in Windows PATH' option. The PATH option will enable execution of the MySQL command line utility from any location.


MySQL Server Instance Configuration Wizard
MySQL Server Instance Configuration
Configure the MySQL Server 5.1 server instance.
Please set the Windows options.
Install As Windows Service
This is the recommended way to run the MySQL server on Windows.
Service Name:
MySQL
Launch the MySQL Server automatically
Include Bin Directory in Windows PATH
Check this option to include the directory containing the server / client executables in the Windows PATH variable so they can be called from the command line.
< Back
Next >
Cancel

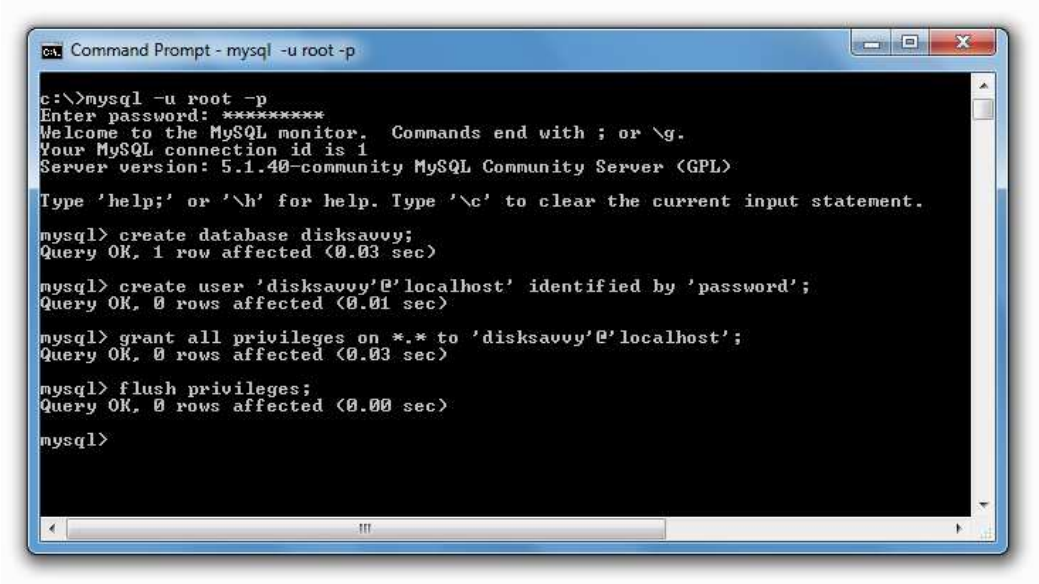
On the next page, select the 'Modify Security Settings' option and specify a root password for the MySQL server, which later will be used to configure regular MySQL users.

MySQL Server Instance Configuration Wizard
MySQL Server Instance Configuration
Configure the MySQL Server 5.1 server instance.
Please set the security options.
Modify Security Settings
New root password:
Enter the root password.
Confirm:
Retype the password.
Enable root access from remote machines
Create An Anonymous Account
This option will create an anonymous account on this server.
Please note that this can lead to an insecure system.
< Back
Next >
Cancel

That's all. Press the 'Next' button to finish the installation procedure.

5.2 Configuring MySQL Database

The MySQL database provides the 'mysql' command line utility, which may be used to configure the database and the user account to be used by DiskSavvy.


Command Prompt - mysql -u root -p
c:\>mysql -u root -p
Enter password: *********
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 1
Server version: 5.1.40-community MySQL Community Server (GPL)
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> create database disksavvy;
Query OK, 1 row affected (0.03 sec)
mysql> create user 'disksavvy'@'localhost' identified by 'password';
Query OK, 0 rows affected (0.01 sec)
mysql> grant all privileges on *.* to 'disksavvy'@'localhost';
Query OK, 0 rows affected (0.03 sec)
mysql> flush privileges;
Query OK, 0 rows affected (0.00 sec)
mysql>

In order to configure the MySQL database, open the command prompt window and type the following command:

mysql –u root –p

This command will start the 'mysql' command line utility and login to the MySQL server with root permissions. The user will be asked to provide the root password, which was specified during the MySQL server installation procedure.

Once logged in, the user needs to create a database that will be used by DiskSavvy to store file classification reports. In order to do that, type the following command:

create database disksavvy;

Now, add a user account that will be used by DiskSavvy to submit reports to the database. Single quotes are required and should be specified exactly as displayed.

create user 'disksavvy'@'localhost' identified by 'password';

Now, grant permissions to the user account using the following command:

grant all privileges on *.* to 'disksavvy'@'localhost';

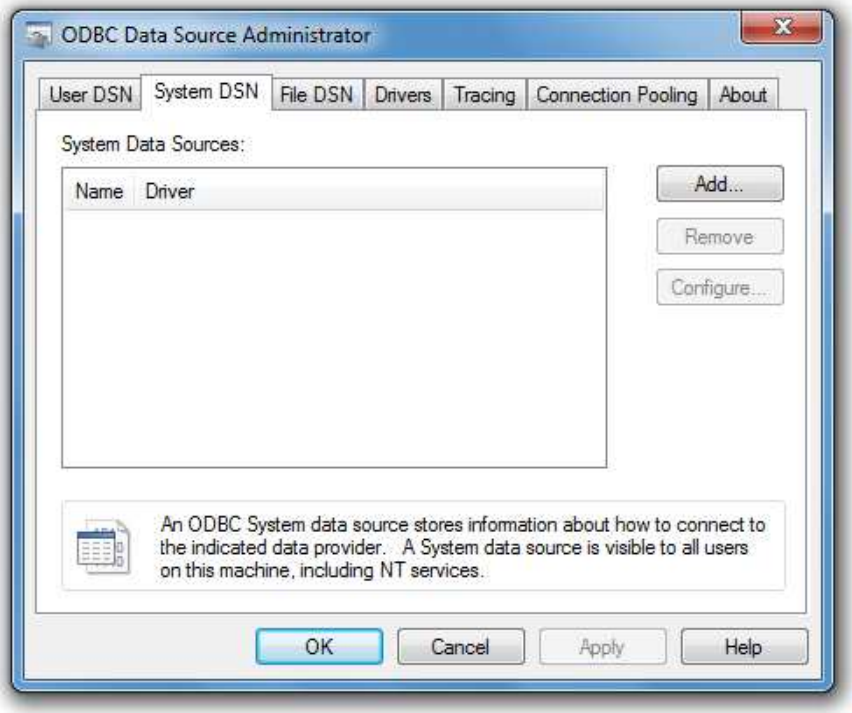
Finally, flush user privileges using the following command.

flush privileges;

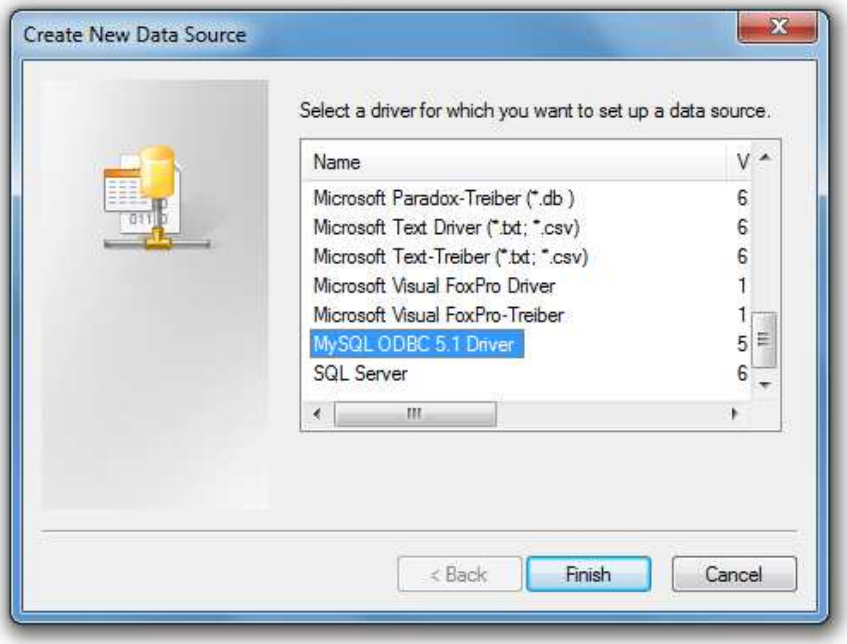
That's all. Now the MySQL server is fully configured. In order to disconnect from the MySQL database, just type '**quit**' in the command window.

5.3 Configuring MySQL ODBC Data Source

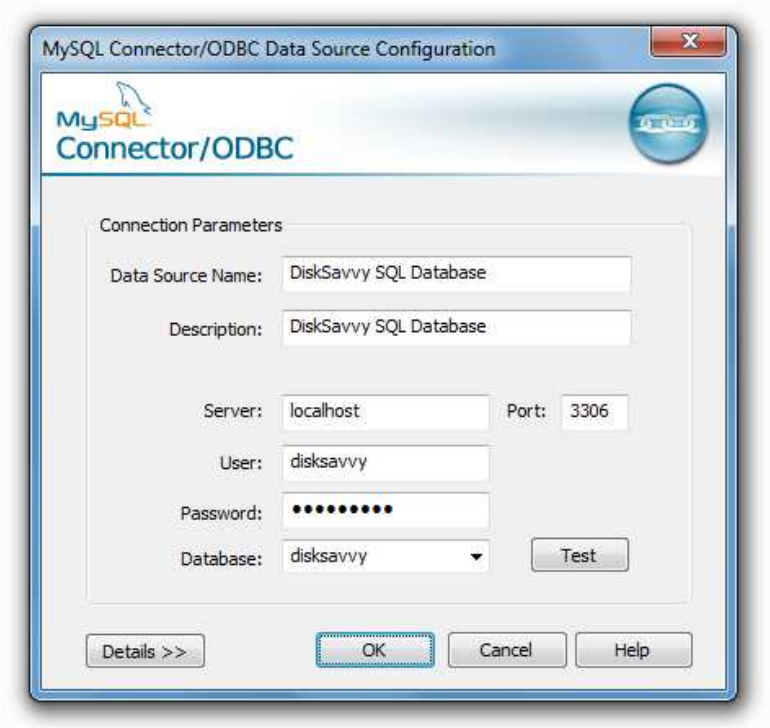
DiskSavvy connects to the MySQL database through the ODBC interface. Download an appropriate version of the MySQL ODBC connector from the MySQL web site and execute the setup program. There are no critical configuration options in the MySQL ODBC connector installation procedure and the user can just press the 'Next' button until the last page keeping the default configuration options.



After finished installing MySQL ODBC Connector, open the Windows control panel and select 'Administrative Tools – Data Sources (ODBC)'. On the ODBC Administrator window, select the 'System DSN' tab and press the 'Add' button. On the next page, select the 'MySQL ODBC Driver' and press the 'Finish' button.

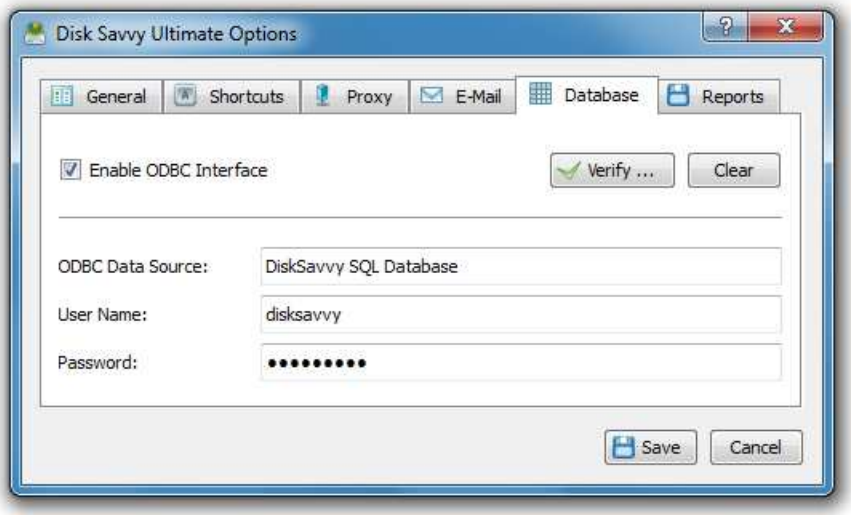


On the next page, enter a new data source name, which will be used by DiskSavvy to connect to the database. Specify the name of the host where the MySQL server is running on and enter the MySQL user name and password that should be used by DiskSavvy to connect to the database. Finally, select the name of the database that should be used to store disk space analysis reports. After finished specifying all the required information, press the 'Test' button to check the database connection.



5.4 Configuring DiskSavvy Database Connection

In order to configure DiskSavvy to use the installed MySQL database, open the options dialog and select the 'Database' tab. Enable the ODBC interface and enter the name of the ODBC data source, the database user name and password that were specified for the ODBC data source. Finally, press the 'Verify' button to check the DiskSavvy database connection.



5.5 Supported Operating Systems

32-Bit Operating Systems

- Windows 2000
- Windows XP
- Windows Vista
- Windows 7
- Windows 8
- Windows 8.1
- Windows 10
- Windows Server 2003
- Windows Server 2008
- Windows Server 2012
- Windows Server 2012 R2

64-Bit Operating Systems

- Windows XP 64-Bit
- Windows Vista 64-Bit
- Windows 7 64-Bit
- Windows 8 64-Bit
- Windows 8.1 64-Bit
- Windows 10 64-Bit
- Windows Server 2003 64-Bit
- Windows Server 2008 64-Bit
- Windows Server 2012 64-Bit
- Windows Server 2012 R2 64-Bit

5.6 System Requirements

Minimal System Configuration

- Supported Operating System
- 1 GHz or better CPU
- 256 MB of system memory
- 25 MB of free disk space

Recommended System Configuration

- Supported Operating System
- 2+ GHz single-core or dual-core CPU
- 512 MBytes of system memory
- 25 MB of free disk space